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FERTILIZER REPORT

1940



JOHN H. LIGHT Secretary of Agriculture

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CONTENTS

	Page
Introduction	3
Brands Registered and Tonnage Sales	4
Conclusions	4
Table I, Deficiencies	5
Table II, Average Analyses and Retail Prices	5
Key to Tables	6
Table III, Complete Fertilizers	7
Table IV, Ground Bone Fertilizers	18
Table V, Superphosphate and Lime Phosphate Fertilizers	19
Table VI, Rock and Potash Fertilizers	23
Table VII, Miscellaneous Fertilizers	25

FERTILIZER REPORT--1940

INTRODUCTION

All products intended for fertilizing purposes are required to be registered annually in accordance with the provisions of the Pennsylvania Fertilizer Law, Act of May 1, 1909, as amended. The dung of domestic animals, marl, lime, and wood ashes are exempt.

Section I requires the following information to be shown on sacks or attached cards: (a) The number of pounds of fertilizer contained in the package; (b) the name, brand, or trade mark under which the fertilizer is sold; (c) the name and principal address of the manufacturer, importer, or orther person putting the fertilizer on the market in this Commonwealth; (d) guarantee for nitrogen; (e) guarantee for total phosphoric acid, except in mixed and superphosphate fertilizers; (f) guarantee for available phosphoric acid; (g) guarantee for potash soluble in distilled water.

All mixed fertilizers are required to contain at least sixteen units of plant food based upon guarantees for nitrogen, available phosphoric acid, and water soluble potash, and which guarantees must be stated in even units.

Applications for registration are forwarded to each licensed manufacturer at the end of the calendar year, and it is necessary to report on same the preceding year's tonnage sales of each brand in order that license or registration fee can be properly computed. Tonnage sales are likewise required for brands even though they are not to be re-registered.

The Agents of the Bureau of Foods and Chemistry are authorized to obtain official samples which, together with reports giving full information for each individual sample, are forwarded direct to the Laboratory where a check of records is made to determine whether the brands are registered. Where it is found that these official samples are duly registered, an analysis is conducted to ascertain whether or not the fertilizer meets its guaranteed analysis.

During the year 1940, the Agents of the Department collected 1,085 official samples, and of this number, 1,065, representing 451 brands, registered by 47 manufacturers, were subjected to analysis and classified as follows:

Complete Fertilizers	784 19 159 12 82
Total 451	1065

BRANDS REGISTERED AND TONNAGE SALES

The registration fee for each new brand of fertilizer is \$15, and where old brands are to be re-registered, the scale of fees is as follows: O to 150 tons, \$15; over 150 tons to 250 tons, \$20; over 250 tons to 400 tons, \$30; over 400 tons to 500 tons, \$40; over 500 tons, \$50.

Licenses were issued to 120 manufacturers to cover sales of their brands for the year 1940. These licenses included 1,033 brands of which 801 were mixed fertilizers and 232 so-called "base" materials such as nitrate of soda, sulphate of ammonia, bone, etc.

The 1940 applications for registration showed that 357,875 tons of all classes of fertilizers were sold during the year 1939 (compared with 358,467 tons sold during 1938) and classified as follows: Complete Fertilizers, 247,374 tons; Ground Bone Fertilizers, 2,844 tons; Superphosphate Fertilizers, 85,209 tons; Lime Phosphate Fertilizers, 4,578 tons; Ammoniated Phosphate Fertilizers, 14 tons; Rock and Potash Fertilizers, 11,477 tons; and Miscellaneous Fertilizers, including the following: Tankage, 1,348 tons; Dried Blood, 6 tons; Nitrate of Soda, 120 tons; Potash Salts, 668 tons; Sulphate of Ammonia, 561 tons; and unclassified 3,676 tons.

The 1939 tonnage figure reveals that there were supplied 8,136 tons of nitrogen, 45,297 tons of available phosphoric acid, and 16,871 tons of water soluble potash, or a total of 70,304 tons of plant food. The amount of plant food is in excess of that supplied during the year 1938, namely, 68,908 tons.

CONCLUSIONS

Of the 1,065 official samples analyzed, lll or 10.42% were found to be deficient in one or more elements of plant food, to the extent of .2% or more. The proportion of deficiencies is lower than that reported for the year 1939.

Considering the plant food elements separately, 30 samples or 3.71% were found to be deficient in nitrogen, 32 or 3.02% deficient in phosphoric acid, and 60 or 6.90% deficient in water soluble potash.

Of the total number of fertilizers analyzed, 784 were complete fertilizers and 98 or 12.50% were found to be deficient, 30 or 3.83% deficient in nitrogen, 30 or 3.83% in available phosphoric acid, and 49 or 6.25% in water soluble potash.

The Law requires that when the word "tobacco" is used as a part of the brand name, the potash content must be in a form other than chloride.

There were no deficiencies noted in the Ground Bone Fertilizers, Superphosphate Fertilizers, and Lime Phosphate Fertilizers, while twelve samples were found to be deficient in water soluble potash in the Rock and Potash group. In the Miscellaneous Fertilizers one sample was found to be deficient in potash.

The average unit values, estimated from the average retail selling prices, were as follows: Nitrogen \$2.80, Available Phosphoric Acid \$1.01, Water Soluble Potash \$1.49.

The average retail selling price for Complete Fertilizers was \$31.09 a ton, compared with \$30.23 for 1939.

It is noted that 10.42% of all samples collected during the year 1940 were found to be deficient, which deficiency is lower than the previous year's inspection. In most instances the deficiencies were balanced by overages in other elements. Where the deficiencies were found to be of a serious nature, prosecution was instituted.

TABLE	IDE	FICIEN	CLES

		Numbe	Number Deficient						
CLASS OF FERTILIZERS	SAMPLES	NITROGEN	AVAILABLE PHOSPHORIC ACID	POTASH					
Complete Fertilizers	784	30	30	49					
Ground Bone Fertilizers	19								
Superphosphate Fertilizers	159								
Lime Phosphate Fertilizers	12								
Rock and Potash Fertilizers	82		2	10					
Miscellaneous Fertilizers	9		==	_1					
Total	1065	30	32	60					

TABLE II -- AVERAGE ANALYSES AND RETAIL PRICES

FORM OF PLANT FOOD	COMPLETE FERTILIZERS	GROUND BONE - FERTI- LIZERS	SUPERPHOS- PHATE FERTI- LIZERS*	ROCK AND POTASH FERTI- LIZERS
	Per Cent	Per Cent	Per Cent	Per Cent
Nitrogen	3.38	3.62		
Total Phosphoric Acid		23.77		
Available Phosphoric Aci			20.24	14.87
Potash				8.51
Selling Price 1940	\$31.09	\$46.40	\$20.40	\$27.66
Selling Price 1939		\$43.75	\$20.02	\$25.76

^{*}Excluding Lime Phosphate

KEY TO TABLES

The following tables include the results of chemical analyses of the official samples. Each sample was given a chemist's number and analyzed for the element or elements guaranteed.

The asterisk (*) indicates those samples found to be deficient to the extent of .2% or more.

Table III. Complete Fertilizers, furnishing Nitrogen, Available Phosphoric Acid, and Potash.

Table IV. Ground Bone Fertilizers, furnishing Nitrogen and Total Phosphoric Acid.

Table V. Superphosphate and Lime Phosphate Fertilizers, furnishing Available Phosphoric Acid.

Table VI. Rock and Potash Fertilizers, furnishing Available Phosphoric Acid and Potash.

Table VII. Miscellaneous Fertilizers, including Nitrate of Soda, Sulphate of Ammonia, Muriate of Potash, Tankage, and Milorganite.

WARNING

*"Section 5. Any person or persons selling, offering, or exposin for sale, any commercial fertilizer or any brand of the same, having a distinct trade-name, without the analysis required by section one of this act, or with an analysis stating that it contains a larger percentage of any one or more of the above-named constituents than is contained therein, or for the sale of which all the provisions of sections two and three have not been complied with, or any person violating any of the provisions of section four of this act, shall be guilty of a misdemeanor, and, on conviction, shall be sentenced to pay a fine of not less than twenty-five nor more than one hundred dollars for the first offense, and not less than two hundred dollars for each subsequent offense..........."

The Department of Agriculture, as the agency charged by the Legislature with the enforcement of the provisions of the Fertilizer Law, copies of which are available upon request, insists upon strict compliance therewith.

*Act of May 1, 1909, P. L. 344 as amended.

NITROGEN AV.		AVA	AVAILABLE PHOSPHORIC ACID		POTASH	
Found	Guar.	Found	Guar.	Found	Guar.	As Muriate
P. et.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.
2.12 2.01 2.10 2.51 *2.67 3.18 3.85	2.00 2.00 2.00 2.00 2.00 3.00 3.00 4.00	9.24 9.44 12.46 12.00 13.43 11.91 8.05	9.00 9.00 12.00 12.00 12.00 12.00 8.00	*4.58 5.29 4.05 6.19 *5.68 6.61 9.28	5.00 5.00 4.00 6.00 6.00 6.00 8.00	
2.00 2.11 3.18 3.01	2.00 2.00 3.00 3.00	8.14 9.27 *8.57 9.02 9.19 9.41 9.44 *11.52 11.88	8.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00	15.02 5.12 5.44 5.01 5.58 5.12 5.00 5.45 6.19 6.24	15.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00	
4.09 4.19 1.94 2.02 2.12 4.89 4.86 4.28 4.21 4.29 4.28 4.29 4.26	4.00 2.00 2.00 2.00 5.00 5.00 4.00 4.00 4.00 4.00 4.00	8.05 8.13 8.35 8.63 8.22 12.02 11.92 11.99 12.07 12.87 12.51 9.05 9.41 *9.54 11.75 17.02 16.08 16.94 16.96	12.00 12.00 12.00 12.00 12.00 12.00 12.00 9.00 9.00 9.00 10.00 16.00 16.00 16.00 16.00 16.00	4.46 3.96 4.48 4.16 4.29 4.35 5.02 4.85 5.16 *4.39 4.35 3.95 4.49 4.08 4.60	4.00 8.00 8.00 8.00 8.00 8.00 8.00 6.00 6	
6.06 3.02 3.17 2.02 3.17 2.01 3.15 3.14 3.14 2.04 2.01 2.10 2.10 2.10 2.20 2.20 2.21 2.11 2.1	6.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00	8.26 *11.13 *11.67 12.73 *11.71 *11.66 12.32 12.34 12.11 12.27 6.39 12.21 11.88 12.09 12.64 12.58 12.19 12.82 12.70 11.81 12.38 12.00 12.44 12.84 12.00 12.75 12.21 13.88 12.00 13.88 14.00 15.00 16.52 16.58 16.52 16.58 16.50 8.32 *7.40 8.04 8.55 8.04 8.55 8.04 8.55 8.10	8.00 12.00 1	2.87 5.88 6.002 6.82 6.109 2.30 6.32 4.35 4.29 4.03 4.04 4.30 4.31 4.30 4.31 4.30 6.17 6.66 6.38 4.30 6.31 6.32 6.32 6.32 6.32 6.32 6.32 6.32 6.32	2.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00	
	Found P. ct. 2.122.010 2.517 3.183 3.85 3.272.002.133.85 3.272.00132.157 2.0133.01 2.04 2.0133.01 2.04 2.0133.01 2.04 2.0133.01 2.04 2.0133.01 2.04 2.0133.01 2.04 2.0133.01 2.04 2.0133.01 2.04 2.0133.01 2.04 2.0133.01 2.04 2.0133.01 2.04 2.0133.01 2.04 2.0133.01 2.04 2.0133.01 2.04 2.0133.01 2.04 2.0133.01 2.014 2.0122.01 2.014 2.0	Found Guar. P. ct. P. ct. 2.12 2.00 2.01 2.00 2.151 2.00 3.18 3.00 3.85 4.00 3.27 3.00 2.20 2.00 2.06 2.00 2.13 2.00 2.15 2.00 2.15 2.00 2.15 2.00 2.15 2.00 2.15 2.00 2.18 3.00 3.01 3.00 2.18 3.00 3.01 3.00 2.19 2.00 2.11 2.00 2.11 2.00 2.11 2.00 2.11 2.00 2.11 2.00 2.11 2.00 2.01 2.00 2.14 2.00 2.15 2.00 2.14 2.00 2.15 2.00 2.14 2.00 2.19 2.00 2.19 2.00 2.19 2.00 2.19 2.00 2.10 2.00 2.10 2.00 2.11 2.00 2.01 2.00 2.01 2.00 2.01 2.00 2.12 2.00 2.01 2.00 2.12 2.00 2.01 2.00 2.12 2.00 2.13 2.00 2.14 2.00 2.15 3.00 3.15 3.00 3.15 3.00 3.15 3.00 3.15 3.00 3.16 3.00 3.17 3.00 2.12 2.00 2.11 2.00 2.12 2.00 2.12 2.00 2.13 2.00 2.14 2.00 2.15 2.00 2.17 2.00 2.19 2.00 2.19 2.00 2.10 2.00 2.11 2.00 2.12 2.00 2.11 2.00 2.12 2.00 2.12 2.00 2.13 2.00 2.14 2.00 2.15 2.00 2.16 2.00 2.17 2.00 2.18 2.00 2.19 2.00 2.19 2.00 2.19 2.00 2.10 2.00 2.11 2.00 2.12 2.00 2.12 2.00 2.14 2.00 2.15 2.00 2.17 2.00 2.18 2.00 2.19 2.00 2.19 2.00 2.19 2.00 2.10 2.00 2.11 2.00 2.12 2.00 2.12 2.00 2.14 2.00 2.15 2.00 2.17 2.00 2.18 2.00 2.19 2.00 2.19 2.00 2.10 2.00 2.11 2.00 2.12 2.00 2.12 2.00 2.14 2.00 2.15 2.00 2.17 2.00 2.18 2.00 2.19 2.00 2.19 2.00 2.10 2.00 2.11 2.00 2.12 2.00 2.12 2.00 2.13 2.00 2.14 2.00 2.15 2.00 2.16 2.00 2.17 2.00 2.18 2.00 2.19 2.00 2.10 2.00 2.11 2.00 2.12 2.00 2.12 2.00 2.13 2.00 2.14 2.00 2.15 2.00 2.16 2.00 2.17 2.00 2.18 2.00 2.19 2.00 2.10 2.00 2.11 2.00 2.12 2.00 2.12 2.00 2.13 2.00 2.14 2.00 2.15 2.00 2.16 2.00 2.17 2.00 2.18 2.00 2.19 2.00 2.10 2.00 2.10 2.00 2.10 2.00 2.10 2.00 2.11 2.00 2.12 2.00 2.12 2.00 2.13 2.00 2.14 2.00 2.15 2.00 2.16 2.00 2.17 2.00 2.18 2.00 2.19 2.00 2.10 2.00 2.10 2.00 2.10 2.00 2.10 2.00 2.10 2.00 2.10 2.00 2.10 2.00 2.10 2.00 2.10 2.00 2.10 2.00 2.10 2.00 2.10 2.00 2.10 2.00 2.10 2.00 2.10 2.00 2.10 2.00 2.10 2.00 2.10	Found Guar. Found P. et. P. et. P. et. 2.12 2.00 9.24 2.01 2.00 12.00 2.51 2.00 12.00 2.51 2.00 13.43 3.18 3.00 11.91 3.85 4.00 8.05 3.27 3.00 8.14 2.20 2.00 9.27 2.06 2.00 9.27 2.06 2.00 9.41 2.11 2.00 9.41 2.11 2.00 9.41 2.11 2.00 9.41 2.11 2.00 9.41 2.11 2.00 9.14 3.18 3.00 11.52 3.01 3.00 11.68 3.01 3.00 11.62 4.04 4.00 8.14 4.09 4.00 8.61 3.97 4.00 8.45 8.79 4.00 8.45 8.79 4.00 8.45 8.79 4.00 8.42 3.87 4.00 8.34 4.18 4.00 8.34 4.18 4.00 8.34 4.18 4.00 8.34 4.18 4.00 8.34 4.18 4.00 8.34 4.18 4.00 8.35 2.01 2.00 12.06 2.09 2.00 12.06 2.09 2.00 12.04 2.24 2.00 12.12 2.14 2.00 12.32 2.16 2.00 12.06 2.09 2.00 12.04 2.24 2.00 12.12 2.14 2.00 12.32 2.16 2.00 12.06 2.09 2.00 12.06 2.09 2.00 12.06 2.09 2.00 12.06 2.09 2.00 12.06 2.09 2.00 12.06 2.12 2.00 8.55 2.12 2.00 8.65 2.07 2.00 8.05 2.12 2.00 8.65 2.07 2.00 8.22 4.19 4.00 11.99 4.07 4.19 4.00 12.02 4.19 4.00 12.02 4.19 4.00 12.97 4.09 4.00 12.97 4.19 4.00 12.97 4.19 4.00 12.97 4.19 4.00 12.97 4.19 4.00 12.97 4.19 4.00 12.97 4.19 4.00 12.97 4.19 4.00 12.97 4.19 4.00 12.97 4.19 4.00 12.97 4.19 4.00 12.97 4.19 4.00 12.97 4.19 4.00 12.97 4.19 4.00 12.97 4.19 4.00 12.97 4.28 4.00 16.98 4.29 4.00 16.94 4.29 4.00 16.94 4.29 4.00 16.94 4.29 4.00 16.94 4.29 4.00 16.94 4.29 4.00 16.94 4.29 4.00 16.94 4.29 4.00 16.92 4.21 4.00 16.92 4.21 4.00 16.92 4.21 4.00 16.92 4.21 4.00 12.92 2.12 2.00 2.00 12.18 2.13 2.00 12.58 2.19 2.00 12.59 2.12 2.00 12.58 2.19 2.00 12.59 2.12 2.00 12.58 2.19 2.00 12.59 2.12 2.00 12.59 2.12 2.00 12.59 2.13 2.00 12.59 2.14 2.00 12.90 2.15 2.00 12.59 2.16 2.00 12.59 2.17 2.00 12.59 2.18 2.00 12.59 2.19 2.00 12.59 2.11 2.00 12.59 2.12 2.00 12.59 2.14 2.00 12.59 2.15 2.00 12.59 2.16 2.00 12.59 2.17 2.	Found Guar. Found Guar.	Found Guar. Found Guar. Found P. et. P. et.	Providence Pro

MANUFACTURER AND BRAND NAME	NIIK	PHOSPHORIC ACID		POTASH	As		
MANOFACIONEM AND BUMB MINE	Found	Guar.	Found	Guar.	Found	Guar.	Muria
	P. ct.	P, ct.	P. et.	P. et.	P. ct.	P, et.	P. ct
grico for Potatoes 4-8-8 (5790) grico for Potatoes 4-8-8 (5930)	4.10	4.00	8.61 8.46	8.00	8.72 8.02	8.00	
rico for Potatoes 4-8-8 (5942) grico for Potatoes 4-8-8 (6065)	3.93 3.87	4.00	9.67 8.06	8.00	7.83 8.19	8.00	
rico for Potatoes 4-8-10 (5416)	4.14	4.00	8.16	8.00	10.06 10.78	10.00	
rico for Potatoes 4-8-10 (6114) grico for Potatoes 5-15-15 (5371)	4.14 4.83	4.00 5.00	8.23 14.88	8.00 15.00	15.15	15.00	
grico for Tomatoes 4-14-6 (5228) grico for Tomatoes 4-14-6 (5399)	3.97 4.01	4.00	14.02 14.88	14.00 14.00	7.08 6.05	6.00	
rico for Tomatoes 4-14-6 (5421) rico for Tomatoes 4-14-6 (5792)	4.13 4.04	4.00 4.00	14.04 14.76	14.00	5.94 *5.67	6.00	
rico for Tomatoes 4-14-6 (5877)	4.14	4.00	14.86 14.86	14.00 14.00	6.45	6.00	
rico for Tomatoes 4-14-6 (6057) rico for Tomatoes 4-14-6 (6058)	4.49 4.12	4.00	14.18	14.00	6.57 7.14	6.00 7.00	
rico for Top Dressing 7-7-7 (5155) rico for Top Dressing 7-7-7 (5425)	7.16 *6.79	7.00 7.00	7.07	7.00	7.27	7.00	
grico for Top Dressing 7-7-7 (6060)	7 10	7.00	7.43	7.00	6.85 7.96	7.00	
grico for Top Dressing 7-7-7 (6124) grico for Truck 5-10-5 (5154)	*6.77 5.09	7.00 5.00	7.36	7.00	7.07 5.09	7.00 5.00	
rico for Truck 5-10-5 (5196)	5.06	5.00	10.02	10.00	5.31 4.90	5.00	
rico for Truck 5-10-5 (5202) rico for Truck 5-10-5 (5225)	5.05 5.18	5.00	~9.55	10.00	5.33 5.22	5.00	
rico for Truck 5-10-5 (5415) rico for Truck 5-10-5 (5483)	5.00 5.30	5.00	*9.50 10.35	10.00	5,30	5.00	
rico for Truck 5-10-5 (5512)	5.29 5.12	5.00 5.00	10.30	10.00	5.08 5.49	5.00	
rico for Truck 5-10-5 (5958)	5.29 5.30	5.00 5.00	11.06 11.72	10.00	5.37	5.00 5.00	
rico for Truck 5-10-5 (6064) grico for Truck 5-10-5 (6123)	5.14	5.00	10.07	10.00	5.31	5.00	
rico for Truck 5-10-10 (5418) rico for Wheat 2-12-6 (5124)	4.92	2.00	12.35	12.00	6.13 6.05	6.00	
grico for Wheat 2-12-6 (5177) grico for Wheat 2-12-6 (5735)	2.08	2.00	12.14	12.00	6.43 6.49	6.00	
grico for Wheat 2-12-6 (5788) grico for Wheat 2-12-6 (5811)	2.05	2.00	12.22	12.00	6.41	6.00	
grico for Wheat 2-12-6 (5907)	2.18	2.00	12.28	12.00	6.36 6.27	6.00	
grico for Wheat 2-12-6 (6019)	2.11	2.00	12.27 12.18	12.00	6.26 6.28	6.00	
grico for Wheat 2-12-6 (6133) ister's Harvest Queen Fertilizer 2-9-5 (5686)	2.03	2.00	9.63	9.00	5.37	5.00	
ister's Harvest Queen Fertilizer 2-9-5 (5789)	2.01	2.00	9.15	9.00	5.52	5.00	
ARMOUR FERTILIZER WORKS 8eltimore, Md.							
rmour's Big Crop Fertilizer 2-8-10 (5188)	2.01	2.00	8.43	8,00	10.38	10.00	
rmour's 8ig Crop Fertilizer 2-8-10	2.01	2.00	8.48	8,00	10.58	10.00	
(6092) rmour's Big Crop Fertilizer 2-9-5 (5126)	2.07	2.00	9.30	9.00	4.93	5.00	
rmour's Big Crop Fertilizer 2-9-5 (5708)	1.88	2.00	9.16	9.00	5.95	5.00	
rmour's 8ig Crop Fertilizer 2-9-5 (5747)	1.82	2.00	10.09	9.00	5.20	5.00	
rmour's 8ig Crop Fertilizer 2-9-5 (5775)	2.01	2.00	9.63	9.00	5.47	5.00	
rmour's Pig Crop Fertilizer 2-9-5 (5967)	2.08	2.00	9.21	9.00	5.79	5.00	
rmour's 8ig Crop Fertilizer 2-12-4 (6096) rmour's 8ig Crop Fertilizer 2-12-6	2.14	2.00	12.50	12.00	4.43	4.00	
(5129) rmour's 8ig Crop Fertilizer 2-12-6	2.08	2.00	12.26	12.00	6.40	6.00	
(5247) rmour's 8ig Crop Fertilizer 2-12-6	2.12	2.00	12.23	12.00	6.30	6.00	
(5374) rmour's 8ig Crop Fertilizer 2-12-6	2.10	2.00	12.14	12.00	6.21	6.00	
(5467) rmour's Big Crop Fertilizer 2-12-6	2.09	2.00	12.07	12.00	6.58	6.00	
(5477) rmour'e 8ig Crop Fertilizer 2-12-6 (5713)	2.04	2.00	12.26	12.00	6.27	6.00	
rmour's 8ig Crop Fertilizer 2-12-6 (5719)	2.43	2.00	*11.77	12.00	6.38	6.00	
rmour's 8ig Crop Fertilizer 2-12-6 (5774)	2.02	2.00	12.47	12,00	6.20	6.00	
rmour's 8ig Crop Fertilizer 2-12-6 (5871)	2.10	2.00	12.84	12.00	6.28	6.00	
rmour's 8ig Crop Fertilizer 2-12-6 (5912)	2.05	2.00	12.97	12.00	*5.69	6.00	
irmour's 8ig Crop Fertilizer 2-12-6 (5949) Armour's Big Crop Fertilizer 2-12-6	2.10	2.00	12.40	12.00	6.22	6.00	
Armour's Fig Crop Fertilizer 3-12-6	2.01	2.00	12.49	12.00	6.18	6.00	
(5185) Armour'e Sig Crop Fertilizer 3-12-6	3.02	3.00	12.26	12.00	6.13	6.00	
(5242) Armour's Sig Crop Fertilizer 3-12-6	3.04	3.00	12.09	12.00	6.10	6.00	
(5373) Armour's 8ig Crop Fertilizer 3-12-6	3,01	3.00	12.37	12.00	6.36	6.00	
(5469) Armour's 8ig Crop Fertilizer 3-12-6	3.00	3.00	12.33	12.00	6.01	6.00	
(5711) Armour's 81g Crop Fertilizer 3-12-6	3.00	3.00	12.76	12.00	6.32	6.00	
Armour's Sig Crop Fertilizer 3-12-6	3.01	3.00	12.69	12.00	6.22	6.00	
(5870) Armour's Sig Crop Fertilizer 3-12-6			12.49	12.00	6.46	6.00	

MANUFACTURER AND BRAND NAME	NITROGEN AVAILABLE POTAS AND NAME PHOSPHORIC ACID POTAS		POTASH				
MANOPACICIER AND BRAND NAME	Found	Guar.	Found	Guar.	Found	Guar.	As Muriate
	P. ct.	P. et.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.
Armour's Big Crop Fertilizar 3-12-6 (5948)	7 07	7.00	35.35				
Armour's Eig Crop Fertilizar 3-12-6	3.03	3.00	13.13	12.00	6.01	6.00	
(6021) Armour's Sig Crop Fertilizer 4-8-8	3.06	3,00	12.74	12.00	6.27	6.00	
(5186) Armour's 8ig Crop Fertilizer 4-8-8	3.93	4.00	8,34	8.00	8,26	8.00	
(5241) Armour's Big Crop Fertilizer 4-8-8	3.95	4.00	8.44	8.00	7.84	8,00	
(5376) Armour's Big Crop Fertilizer 4-8-8	4.06	4.00	8.79	8.00	7.96	8.00	
(5468) Armour's Big Crop Fertilizer 4-8-8	3.88	4.00	8.12	8.00	8.21	8.00	
(5476) Armour's Big Crop Fertilizer 4-8-8	3.91	4.00	8,66	8.00	7.88	8.00	
(5709) Armour's 8ig Crop Fertilizar 4-8-8	4.01	4.00	8.07	8.00	8.25	8.00	
(5911) Armour's Big Crop Fertilizer 4-8-8	4.04	4.00	9.16	8,00	8.48	8.00	
(6055) Armour's Big Crop Fertilizer 4-8-8	3.82	4.00	9,14	8.00	*7.52	8.00	
(6094) Armour's Big Crop Fertilizer 4-12-4	*3.67	4.00	9.41	8.00	7.87	8.00	
(5372) Armour's Big Crop Fertilizer 4-12-4	3.88	4.00	12.37	12.00	4.09	4.00	
(5478)	4.11	4.00	12.67	12.00	4.33	4.00	
Armour'e Big Crop Fertilizer 4-12-4 (5712)	4.23	4.00	12.03	12.00	4 -34	4.00	
Armour's Big Crop Fertilizar 4-12-4 (5720)	3,88	4.00	12.18	12.00	4.00	4.00	
Armour's Big Crop Fertilizer 4-12-4 (5947)	4.00	4.00	12.40	12.00	4.67	4.00	
Armour's Big Crop Fertilizer 4-12-4 (6091)	4.06	4.00	12.63	12.00	4.26	4.00	
Armour's Big Crop Fartilizer 4-16-4 (5246)	4.04	4.00	16.60	16.00	4.58	4.00	
Armour's Big Crop Fartilizer 4-16-4 (6095)	4.08	4.00	16.84	16.00	4.63	4.00	
Armour's 8ig Crop Fertilizer 5-10-5 (5187)	*4.65	5.00	11.31	10.00	4.90	5.00	
BALTIMORE FERTILIZER COMPANY							
Baltimore, Md. Honast 2~8-10 (5384)	3.24	2.00	9.01	8.00	*9.34	10.00	
Honest 2-12-6 (5381) Honest 4-8-8 (5383)	2.20	2.00	12.60	12.00	6.33 8.77	10.00	
BAUGH & SONS CO., Philedelphia, Pe.	-E - O 7	4.00	3.10	0.00	0.11	8.00	
Paugh's 2-12-4 (6110)	2.01	2.00	13.26	12.00	3.96	4.00	
Baugh's Advanced Growar's Special (5724) Baugh's Approved Truck Grower (5181)	5.07 4.01	5.00 4.00	8.38 8.15	8.00 8.00	7.67 8.34	7.00 8.00	
Baugh's Approved Truck Grower (5270) Beugh's Approved Truck Growar (5311)	4.05 4.04	4.00	8.19 8.56	8.00	8.15 8.03	8.00 8.00	
Baugh's Approved Truck Grower (5480) Baugh's Belanced Plant Food (5110)	4.12 4.15	4.00 4.00	8.08 12.77	8.00 12.00	8.21 4.15	8.00 4.00	
Beugh's Belenced Plant Food (5215) Baugh's Commercial Crop Compound (5111)	4.21 2.09	4.00 2.00	12.62 8.29	12.00 8.00	4.32	4.00 10.00	
Baugh's Commerciel Crop Compound (5784) Baugh's Commerciel Crop Compound (6112)	2.17	2.00	8.49 8.39	8.00	10.64	10.00	
Baugh's Complete Animal Base Fertilizer (5212)	2.01	2.00	9.13	9.00	5.37	5.00	
Beugh's Complete Animal Besa Fertilizer (5312)	2.03	2.00	10.01	9.00	5.03	5.00	
Baugh's Complete Animal Sase Fertilizer (5337)	2.23	2.00	9.53	9.00			
Seugh's Complate Animal Base Fertilizer (5669)					5.00	5.00	
Beugh's Complete Animal Base Fartilizer	2.01	2.00	9.00	9.00	5.34	5.00	
(5978) Beugh's Complata Animal Base Fertilizer	2.22	2.00	9.78	9.00	5.09	5.00	
(6101) Beugh's Corn & Oats Fertilizer (5668)	2.08	2.00	9.78	9.00	5.59 4.37	5.00 4.00	
Baugh's Corn & Oats Fartilizer (5783) Baugh's Corn & Oats Fertilizer (5972)	2.12	2.00	12.63 12.97	12.00	4.21	4.00	
Beugh's Double Eegle Phosphate (5182) Baugh's Doubla Eagle Phosphate (5213)	2.19	2.00	12.22	12.00	6.54 6.28	6.00	
Baugh's Doubla Eegle Phosphate (5278) Beugh's Doubla Eagle Phosphete (5336)	2.14 2.29	2.00	12.33 12.94	12.00	6.40 6.61	6.00 6.00	
Beugh's Doubla Eegle Phosphate (5482)	2.26	2.00	12.59	12.00	6.05	6.00	
Reugh's Doubla Eagle Phosphata (5785) Baugh's Double Eagle Phosphate (5971)	2.29	2.00	12.70 12.64	12.00	6.95	6.00	
Beugh's Doubla Eagle Phosphete (6106) Beugh's Doubla Fower Fertilizar (5214)	2.29 4.22	2.00 4.00	12.89 16.78	12.00 16.00	6.04 4.19	6.00 4.00	
Baugh's Doubla Power Fertilizer (5273) Beugh's Double Power Fertilizer (6169)	4.16 4.12	4.00	16.40 17.60	16.00 16.00	4.71 4.31	4.00	
Baugh's Excalsior Mixture (5291)	1.29	1.00	11.59	10.00	4.82	5.00	
Baugh's Half Cantury Parfection Strend (6168)	4.09	4.00	8.45	8.00	7.00	7.00	
Baugh's High Grede Fish Brand (6104) Beugh's Premium Plant Food & Soil	3.01	3.00	12.29	12.00	6.69	6.00	
Builder 3-12-6 (5310) Baugh's Premium Plent Food & Soil	3.08	3.00	12.44	12.00	6.30	6.00	
Builder 3-12-6 (5782) Beugh's Premium Plant Food & Soil	3.24	3.00	12.57	12.00	6.94	6.00	
8uilder 3-12-6 (6109) Baugh's Pramium Plant Food & Soil	3.14	3.00	12.23	12.00	6.46	6.00	
8uilder 5-10-5 (5183) Baugh's Threa Quartar Century Perfection	5.01	5.00	10.54	10.00	5.40	5.00	
Brand (5180) Beugh's Three Querter Cantury Perfection	3.00	3.00	12.03	12.00	6.50	6.00	
8rand (5306)	3.14	3.00	12.47	12.00	6.14	6.00	
*Deficient							
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TABLE III. ANALYSES OF COMPLETE FE	PHOSPHORIC ACID		POTASH				
MANUFACTURER AND BRAND NAME	Found	Guar.	Found	Guar.	Found	Guar.	As Muriate
	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.
Saugh's Three Quarter Century Perfection		7.00	10.55	10.00	6.60	6.00	
8rand (5479) Baugh's Three Quarter Century Perfection	3.18	3.00	12.37	12.00	6.62	6.00	
Brand (6167) Baugh's Tree Food (5279)	3.29 10.53	3.00 10.00	12,88 6,26	12.00	6.38 4.83	6.00 4.00	
Baugh's Truckers Favorite (5179) Baugh's Truckers Favorite (5211)	5.08 5.00	5.00 5.00	9.86 10.63	10.00	5.31 5.23	5.00 5.00	
Saugh's Truckere Favorite (6107) Saugh's Wheat Fertilizer for Wheat &	5.27	5.00	10.33	10,00	5.31	5.00	
Grass (5781)	3.23	3.00	12.97	12.00	6.88	6.00	
Saugh'e Wheat Fertilizer for Wheat & Grass (5976)	2.89	3.00	12.96	12.00	6.59	6.00	
Baugh's Wheat Fertilizer for Wheat & Grass (6105)	3.26	3.00	12.39	12.00	6.48	6.00	
HERSERT SRYANT, INC.							
Alexandria, Virginia H.8.I. 2-8-10 (5331)	2.01	2.00	8.34	8.00	10.31	10.00	
H.8.I. 2-9-5 (5329) H.8.I. 2-12-6 (5330)	2.15 2.29	2.00	9.00	9.00	5.84 *5.40	5.00 6.00	
H.8.I. 3-12-6 (5332)	3.24 4.10	3.00 4.00	12.06 8.86	12.00	6.17 7.14	6.00 7.00	
H.P.I. 4-8-7 (5328)	1.10	1000					
CARLISLE FERTILIZER WORKS Carlisle, Pa. Carlisle 2-9-5 (5389)	2.53	2.00	10.22	9.00	5.24	5.00	
Carlisle 3-12-6 (5388)	3.29	3.00	12.17	12.00	7.22 5.30	6.00 5.00	
Carlisle 5-10-5 (5385)	5,15	5.00	11.00	10,00		2 30 2	
CENTRAL CHEMICAL CORP. OF MARYLAND Hagerstown, Md.			10.07	10.00	6 35	6.00	
Farmrite Fertilizer 2-12-6 (5257) Farmrite Fertilizer 2-12-6 (5896)	2.21 2.01	2.00	12.87 12.46	12.00	6.15 6.05	5.00	
Farmrite Fertilizer 2-12-6 (5915)	2.13	2.00	12.51 12.20	12.00	6.25 6.74	5.00 6.00	
Farmrite Fertilizer 2-12-6 (5950) Farmrite Crown Jewel (5861)	1.00	1.00	10.22	10.00	5.66 5.16	5.00	
Farmrite Excelsior (5256) Farmrite Excelsior (5317)	2.01	2.00	9.32 9.38	9.00	4.83	5.00	
Farmrite Excelsior (5456)	2.16	2.00	9.15 9.39	9.00	5.21 5.18	5.00	
Farmrite Excelsior (5731) Farmrite Excelsior (5893)	2.19	2.00	9.85	9.00	5.00	5.00	
Farmrite Excelsior (5926)	2.21	2.00	9.09 9.13	9.00	5.56 5.06	5.00 5.00	
Farmrite Excelsior (6050) Farmrite Excelsion (6120)	2.17	2.00	9.42	9.00	5.43 4.85	5.00	
Farmrite Excelsion (6142) Farmrite Famous Fruit Food (5453)	2.16 *7.69	2.00	9.01 6.48	6.00	4.07	4.00	
Farmrite Famous Old Fish Srand (5207)	2.09	2.00	12.03 *11.41	12.00 12.00	6.67 6.63	6.00	
Farmrite Famous Old Fish Brand (5354) Farmrite Famous Old Fish Brand (5750)	2.07	2.00	12.94	12.00	6.08 6.15	6.00	
Farmrite Famous Old Fish 8rand (5894) Farmrite Famous Old Fish 8rand (6048)	2.03	2.00	12.18	12.00	6.95	6.00	
Farmrite Farmers Favorite (5885) Farmrite Farmere Favorite (5952)	4.22 *3.19	4.00	12.23 *10.18	12.00	4.47	4.00	
Farmrite Farmers Friend (5200)	4.27	4.00	12.11	12.00	*3.74 4.20	4.00	
Farmrite Farmers Friend (5221) Farmrite Golden Grain (5198)	4.04 3.29	4.00 3.00	12.65 12.68	12.00	*5.44	6.00	
Farmrite Golden Grain (5315)	3.01	3.00	*11.70 11.81	12.00	6.89	6.00	
Farmrite Golden Grain (5356) Farmrite Golden Grain (5857)	3.01	3.00	12.73	12.00	6.22 *5.72	6.00	
Farmrite Golden Grain (5889)	2.97 3.09	3.00	12.49	12.00	6.04	6.00	
Farmrite Golden Grain (5913) Farmrite Grain Food (5245)	2,03	2.00	*11.48	12.00	4.95 4.30	4.00 4.00	
Farmrite Grain Food (5250) Farmrite Grain Food (5455)	2.04 1.85	2.00	*11.62 13.11	12.00	4.17	4.00	
Farmrite Grain Food (5730)	2.02	2.00	12.66	12.00	4.11	4.00	
Farmrite Grain Food (5890) Farmrite Grain Food (6047)	2.21	2.00	10 71	12.00	3.91 11.79	10.00	
Farmrite Imperial (5355) Farmrite Imperial (5858)	2.19	2.00	6.53 8.04	8.00	~9.80	10.00	
Farmrite Imperial (5887)	2.13	2.00	8.15 8.91	8,00	10.18 *8.36	10.00	
Farmrite Imperial (6049) Farmrite Potato Grower (5249)	4.24	4.00	8,50	8.00	7.91 8.53	8.00	
Farmrite Potato Grower (5318) Farmrite Potato Grower (5859)	4.28 3.86	4.00 4.00	8.45	8.00	8.02	8.00	
Formatte Poteto Special (5243)	3.84	4.00	9.01 8.82	8.00	6.98 6.77	7.00	
Farmrite Potato Special (5316) Farmrite Potato Special (5357)	3.95	4.00	8.46 16.02	8.00	6.83 4.54	7.00 4.00	
Farmrite Super Special (5860) Farmrite Super Special (5886)	3.84 *3.76	4.00	16.16	16.00	4.54 5.17	4.00 5.00	
Farmrite Truck Special (5199)	5.02	5.00	10.12	10.00			
COOPERATIVE FERTILIZER SERVICE Baltimore, Md.	0.5=		30.40	12.00	6.48	6.00	
C.F.S. 2-12-6 (5918) C.F.S. 2-12-6 (6013)	2.07	2.00	12.40 12.78	12.00	6.30	6.00	
C.F.S. 3-12-6 (6014)	3.03	3.00 3.00	12.98	12.00 12.00	6.01 6.09	6.00	
C.F.S. 3-12-6 (6135) C.F.S. 4-8-8 (6136)	3.18 4.03	4.00	8.06	8.00	8.38	8.00 4.00	
C.F.S. 4-12-4 (5917) C.F.S. 4-12-4 (6138)	4.25	4.00	12.79 12.17	12.00	4.15	4.00	
C.F.S. 4-16-20 (6017)	4.25 3.73	4.00	16.10 24.22	16.00 24.00	20.11	20.00	
C.F.S. 4-24-12 (6015) C.F.S. 4-24-12 (6137)	4,09 4.00	4.00 4.00	23.86	24.00	13.26	12.00	
COOPERATIVE G.L.F. SOIL SUILDING							-
SERVICE, INC., New York, N. Y. G.L.F. 2-12-6 Non Acid (5340)	2.27	2.00	12.95	12.00	5.91 6.03	6.00	
G.L.F. 2-12-6 Non Acid (5442) G.L.F. 2-12-6 Non Acid (5503)	2.13	2.00	13.45 12.02	12.00 12.00	6.39	6.00	
G.L.F. 2-12-6 Non Acid (5770)	2.65	2.00	12,39 12,86	12.00	7.24 6.44	6.00 6.00	
G.L.F. 3-12-6 Non Acid (5339) G.L.F. 3-12-6 Non Acid (5493)	3,25 3,06	3.00	12.04	12.00	7.49 8.27	6.00 8.00	
G.L.F. 4-8-8 Acid (5769)	4.13	4.00	8.27	8,00	13,0	3,00	
*Deficient							
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TABLE III. ANALYSES OF COMPLETE FE	NITRO		AVAIL	ABLE	ABLE POTASH		
MANUFACTURER AND BRAND NAME			PHOSPHOI		n 1		As
	Found	Guar.	Found	Guar.	Found	Guar.	Muriate
(5.00)	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.
G.L.F. 4-8-8 Non Acid (5494) G.L.F. 4-8-12 (5443)	3.86 3.85	4.00 4.00	8.27 8.69	8.00	8.48 12.52	8.00 12.00	
G.L.F. 4-12-4 Non Acid (5444) G.L.F. 4-16-4 Non Acid (5338)	4.23	4.00	12.27 16.02	12.00 16.00	4.92 5.14	4.00	
G.L.F. 4-16-4 Non Acid (5492)	4.05	4.00	16.16	16.00	4.73 5.02	4.00	
G.L.F. 5-10-5 Non Acid (5342) G.L.F. 5-10-5 Non Acid (5445)	5.02 5.23	5.00	10.05	10.00	5.43	5.00	
G.L.F. 5-10-5 Non Acid (5491) G.L.F. 5-10-10 Acid (5447)	5.01 5.28	5.00 5.00	11.38	10,00	5.19 10.95 *9.32	5.00 10.00	
G.L.F. 5-10-10 Non Acid (5446) G.L.F. 5-10-10 Non Acid (5717)	6.00 5.01	5.00	10.85	10.00	^9.32 10.49	10.00	
G.L.F. 5-20-5 (5448)	5.01	5.00	20.52	20.00	5.51	5.00	
CUMBERLAND VALLEY COOPERATIVE							
ASSOCIATION, Shippensburg, Pa. Old Reliable Sert Special 3-12-6 (5305)	3.69	3.00	13.14	12.00	6.85	6.00	
Old Reliable Sert Special 3-12-6 (5863) Old Reliable Potato Grower 4-8-8 (5262)	2.89 *2.94	3.00 4.00	*11.19 12.43	12.00 8.00	*4.64 *6.25	6.00 8.00	
Old Reliable Potato Grower 4-8-8 (5304)	*2.95	4.00	12.46	8,00	*6.49	8.00	
THE DAVISON CHEMICAL CORPORATION							
Baltimore, Md. Davco Granulated Fertilizer 2-8-10	0.35	0.00	8.05	8.00	*8.93	10.00	
(5090) Dayco Granulated Fertilizer 2-8-10	2.15	2,00					
(5140) Davco Granulated Fertilizer 2-8-10	2.21	2.00	8,34	8.00	10.18	10.00	
(5846) Davco Granulated Fertilizer 2-8-10	2,02	2.00	8.42	8.00	10.15	10,00	
(5997)	2.28	2.00	8.35	8.00	*9.23	10.00	
Davco Granulated Fertilizer 2-9-6 (5093)	2.21	2.00	9,18	9.00	4.82	5.00	
Davco Granulated Fertilizer 2-9-5 (5142)	2.06	2,00	9.12	9.00	5.43	5.00	
Davco Granulated Fertilizer 2-9-5 (5676)	2.29	2,00	9.50	9.00	5.51	5.00	
Davco Granulated Fertilizer 2-9-5 (5841)	2.30	2.00	10.45	9.00	5.56	5.00	
Davco Granulated Fertilizer 2-9-5	2.00	2.00	9.45	9.00	*4.07	5.00	
(6002) Davco Granulated Fertilizer 2-12-4		2.00	12.33	12.00	4.19	4.00	
(5091) Davco Granulated Fertilizer 2-12-4	2.04				3,88	4.00	
(5144) Davco Granulated Fertilizer 2-12-4	2.07	2,00	12,45	12.00			
(5848) Davco Granulated Fertilizer 2-12-4	2.27	2,00	13.49	12.00	4.21	4.00	
(6001)	2.01	2.00	11.90	12.00	4.17	4.00	
Davco Granulated Fertilizer 2-12-6 (5089)	2.13	2,00	12.38	12.00	6.56	6,00	
Davco Grenulated Fertilizer 2-12-6 (5143)	2.04	2.00	11.93	12.00	6.79	6.00	
Davco Granulated Fertilizer 2-12-6 (5501)	2.01	2.00	*11.55	12.00	6.24	6.00	
Davco Granulated Fertilizer 2-12-6 (5680)	2.18	2.00	12.98	12.00	6.62	6.00	
Davco Granulated Fertilizer 2-12-6 (5836)	2.17	2.00	12.43	12.00	6.49	6.00	
Davco Granulated Fertilizer 2-12-6				12.00	6.50	6,00	
(5899) Davco Granulated Fertilizer 2-12-6	2.17	2.00	12.77			1	
(5934) Davco Granulated Fertilizer 2-12-6	2.01	2,00	12.15	12.00	6.48	6,00	
(6003) Davco Granulated Fertilizer 2-12-6	2.03	2.00	12.67	12.00	*5.68	6.00	
(6077) Davco Granulated Fertilizer 2-12-6	2.07	2.00	12.05	12.00	5,95	- 6.00	
(6141)	2.29	2.00	12.41	12.00	6.05	6.00	
Davco Grenulated Fertilizer 3-12-6 (5088)	3.04	3.00	12.09	12.00	6.81	6.00	
Davco Granulated Fertilizer 3-12-6 (5141)	3.19	3.00	12.02	12.00	6.32	6.00	
Davco Gramulated Fertilizer 3-12-6 (5353)	3.08	3.00	12.03	12.00	6.61	6.00	
Davco Granuleted Fertilizer 3-12-6 (5621)	3.10	3.00	12.37	12.00	*5.39	6.00	
Davco Granulated Fertilizer 3-12-6	3.28	3.00	12.32	12.00	5.88	6.00	
(5677) Davco Granulated Fertilizer 3-12-6				12.00	6.11	6.00	
(5845) Davco Granulated Fertilizer 3-12-6	3,24	3.00	12.57				
(6000) Davco Granulated Fertilizer 3-12-6	3.30	3.00	12.11	12.00	6.27	6.00	
(6045) Dayco Granulated Fertilizer 4-8-8	3.29	3.00	12.39	12.00	5.82	6.00	
(5085)	4.08	4.00	8.07	8.00	8.53	8.00	
Davco Granulated Fertilizer 4-8-8 (5139)	4.01	4.00	8.19	8.00	7.85	8.00	
Davco Gramulated Fertilizer 4-8-8 (5352)	4.02	4.00	8.28	8.00	*7.59	8,00	
Davco Granulated Fertilizer 4-8-8 (5500)	3.90	4.00	8.19	8.00	8.28	8,00	
Davco Granulated Fertilizer 4-8-8 (5675)	4.10	4.00	8.27	8.00	8.14	8.00	
Davco Granulated Fertilizer 4-8-8			8,21	8.00	7.95	8.00	
(5842) Davco Granulated Fertilizer 4-8-8	4.23	4.00				8.00	
(5902) Devco Granulated Fertilizer 4-8-8	4.19	4.00	8,25	8.0G	8.01		
(5933) Davco Granulated Fertilizer 4-8-8	4.19	4.00	8.31	8.00	8.04	8.00	
(5996)	4.19	4.00	8.06	8.00	8.10	8.00	
*Deficient	1		\				

TABLE III. ANALISES OF COMPLETE IN	NITRO		AVAILABLE PHOSPHORIC ACID			POTASH	
MANUFACTURER AND BRAND NAME	Found	Guar.	Found	Guar.	Found	Guar.	As Muriate
	P. ct.	P. et.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.
Davco Granulated Fertilizer 4-12-4							
(5086) Davco Granulated Fertilizer 4-12-4	4.11	4.00	12.51	12,00	4.19	4.00	
(5147) Davco Granulated Fertilizer 4-12-4	4.38	4.00	12.19	12.00	3.95	4.00	
(5935) Davco Granulated Fertilizar 4-12-4	4.29	4.00	12.44	12.00	4.29	4.00	
(6075) Davco Granulated Fertilizer 4-16-4	4.30	4.00	12.17	12.00	4.17	4.00 .	
(5092) Davco Granulated Fertilizer 4-16-4	4.21	4.00	16,20	16.00	4.23	4.00	
(5847)	4.11	4.00	16,98	16.00	4.00	4.00	
Davco Granulated Fertilizer 4-16-4 (5903)	*3.69	4.00	16.92	16.00	4.23	4.00	
Davco Granulated Fertilizer 4-16-4 (5995)	4.04	4.00	16.42	16.00	4.05	4.00	
Davco Granulated Fertilizer 4-16-4 (6078)	4.27	4.00	16,28	16.00	4.24	4.00	
Davco Granulated Fertilizer 5-10-5 (5097)	5.29	5.00	10.21	10.00	4.97	5,00	
Davco Granulated Fertilizar 5-10-5 (5843)	5.27	5.00	10.75	10.00	5.14	5.00	
Davco Granulated Fertilizer 5-10-5 (6046)	×4.47	5.00	10.89	10.00	*4.40	5.00	
Davco Granulated Fertilizer 5-10-5 (6076)	5.29	5.00	10.36	10.00	5.16	5.00	
Davco Granulated Pomo Food 10-6-4 (5096)	9.93	10.00	6.60	6,00	4.15	4.00	
Davco Granulated Pomo Food 10-6-4 (5145)	11.31	10.00	*5 .3 9	6.00	4.05	4.00	
Davco Granulated Pomo Food 10-6-4 (5679)	*9.58	10.00	6.41	6.00	4.28	4.00	
Davco Granulated Pomo Food 10-6-4 (5849)	10.29	10.00	6.14	6.00	4.12	4.00	
Davco Granulated Pomo Food 10-6-4 (5998)	10.10	10.00	6.31	6.00	3.98	4.00	
Old Reliable 2-8-10 (5102)	2.01	2.00	8.32 9.11	8.00 9.00	10.12 5.29	10.00	
Old Reliable 2-9-5 (5101) Old Reliable 3-12-6 (5099)	3.00	3 .00 4 .00	12.27 8.88	12.00	6.23 8.23	6.00 8.00	
Old Reliable 4-8-8 (5098) Old Reliable 4-12-4 (5100)	4.07	4.00	12.56	12.00	4.23	4.00	
EASTERN STATES FARMERS' EXCHANGE							
Springfield, Mass. Eastern States 4-16-8 (5451)	4.29	4.00	16.96 16.82	16.00 16.00	8.51 9.60	8.00 8.00	
Eastern States 4-16-8 (5822) Eastern States 4-16-8 (6030)	4.25	4.00	16.80	16.00	8.11	8.00	
Eastern States 4-16-20 (5162) Eastern States 4-16-20 (5298)	4.13	4.00	16.02 16.36	16.00	20.02	20.00	
Eastern States 4-16-20 (5993) Eastern States 4-16-20 (6031)	4.02	4.00	16.54 16.58	16.00	20.66	20.00	
Eestern States 4-24-12 (5132) Eastern States 4-24-12 (5164)	4.20 4.38	4.00	24.34	24.00 24.00	12.76	12.00	
Eastern States 4-24-12 (5292) Eastern States 4-24-12 (5449)	4,16	4.00	24.52 24.90	24.00	14.06	12.00	
Eastern Statee 4-24-12 (5762) Eastern Statae 4-24-12 (5815)	4.23 4.18	4.00	25.22 24.70	24.00 24.00	13.07	12.00	
Eastern States 4-24-12 (5966) Eastern States 5-10-10 (5159)	4.28 5.29	4.00 5.00	24.94 10.44	24.00 10.00	13.34	12.00	
Eastern States 5-10-10 (5452) Eastern States 5-10-10 (5821)	5.20 5.28	5.00 5.00	10.98	10,00	10.87	10.00	
Eastern States 5-10-15 (5824) Eastern States 5-10-15 (6032)	5.13 5.14	5.00 5.00	10.76	10.00	16,62 15.53	15.00 15.00	
Eastern States 5-15-5 (5136)	5.29 5.26	5.00	15.48 15.70	15.00 15.00	5.90 5.00	5.00 5.00	
Eastern States 5-15-5 (5160) Eastern States 5-15-5 (5450)	5.17 5.52	5.00	15.86 16.24	15.00 15.00	5.41 5.44	5.00 5.00	
Eastern States 5-15-5 (5817) Eastern States 5-15-5 (5994)	5.29 *7.35	5.00	16.16 17.30	15.00	5.93 *15.72	5.00 16.00	
Eastern States 8-16-16 (5134) Eastern States 8-16-16 (5163)	8,01	8.00	16.06 16.38	16.00	16.85	16.00 16.00	
Eastern States 8-16-16 (5294) Eastern States 8-16-16 (5825)	8.11 8.06	8.00	16.84	16.00	16.89	16.00 8.00	
Eastern States 8-24-8 (5133) Eastern States 8-24-8 (5295)	8.36 8.27	8.00	24.10 24.18	24.00	8.33 8.99	8.00	
Eastern States 8=24-8 (5818) Eastern States 8=24-8 (5991)	8.10 8.27	8.00	25.52 24.42	24.00 24.00	*7.78	8.00	
Eastern States 10-10-10 (5167) Eastern States 10-10-10 (5299)	9.88 *8.96	10.00	10.83 12.02	10.00	10.59 9.91	10.00	
FARMERS FERTILIZER WORKS							
Elizabethtown, Pa. Donegal Plant Food (5526)	5.15	5.00	10.34	8,00	6.49	6.00	
Farmers 1-10-5 (5540) Farmers 2-9-5 (5538)	1.20	1.00	10.45 9.15	9.00	5.71 5.84	5.00 5.00	
Farmers 2-12-6 (5530)	2.15	2.00	12.37 12.36		6.64 6.10	6.00 6.00	
Farmers 3-12-6 (5529) Farmers 4-8-8 (5539)	4.17	4.00	8.72 12.68	8,00	8.69	8.00 4.00	
Farmers 4-12-4 (5537) Farmers 4-16-4 (5541)	4.22	4.00	15.82	16.00	4.78	4.00 10.00	
Farmers Seet Yet (5533) Farmers Club (5536)	1.88	2.00	8.89	8.00 5.00	5.53	5.00 12.00	
Farmere General Tobacco (5527) Farmere Gilt Edge Potato & Truck (5532)	3.60 3.87	3.00 4.00	6.02 9.03	8.00	7.09	7.00	
Farmers IXL (5542) Farmere Tobacco Special (5528)	2.07	2.00	12.13 6.10	12.00	4.16 6.56	6.00	
GIPE FERTILIZER WORKS							
Lebanon, Pa. Gipe'e 2-8-10 (5608)	*1.79	2.00	8.02	8.00	11.45	10.00	
Gipe'e 2-9-5 (5610)	2.00	2.00	9.41	9.00	5.53 7.34	5.00 6.00	
Gipe'e 2-12-6 (5609) Gipe'e 3-12-6 (5607)	3.07	3.00	11.86 9.21	12.00	6.69 8.09	6.00 8.00	
G1pe's 4-8-8 (5606)	1,00	. 400	- ,				
*Daficient							

TABLE III. ANALYSES OF COMPLETE FE	NITRO		AVAII	LABLE ORIC ACID		POTASH	
MANUFACTURER AND BRAND NAME	Found	Guar.	Found	Guar.	Found	Guar.	As Muriate
GRIFFITH & BOYD COMPANY Baltimore, Md.	P. ct.	P. ct.	P. ct.	P. ct.	P. et.	P. ct.	P. ct.
Extra Strength Guano (5237) Extra Strength Guano (5237) Extra Strength Guano (5236) Gilt Edge Crop Guano (5350) High Grade Flish & Potash Mixture (5349) High Grade Truck Guano (5328) High Grade Truck Guano (5324) Peerless Fertilizer (5190) Peerless Fertilizer (5779) Planters Fride (5364) Planters Fride (5364) Planters Fride (5888) Reliable Crop Grower (5363) Reliable Crop Grower (5377) Reliable Crop Grower (5377) Reliable Crop Grower (5377) Reliable Crop Grower (5377) Reliable Crop Grower (5378) Royal Fish Guano (5351) Royal Guano (5343) Royal Guano (5359) Special Guano (5365) Special Guano (5368) Truck & Potato Special (5344) Wheat & Grain Special (5344) Wheat & Grain Special (5778)	4.20 4.13 2.00 2.12 4.27 4.01 4.16 1.27 3.20 3.20 3.20 2.21 2.20 2.28 2.16 4.06 3.81 2.21 2.20 2.21 2.20 2.21 2.20 2.21 2.20 2.21	4.00 4.00 2.00 2.00 4.00 4.00 4.00 1.00 3.00 3.00 2.00 2.00 2.00 2.00 2.00 2	12.11 8.76 8.78 8.93 10.00 10.22 12.29 12.73 12.61 12.08 12.45 12.54 12.58 12.59 9.02 8.40	16,00 16,00 8,00 12,00 8,00 10,00 10,00 12,00 12,00 12,00 12,00 12,00 12,00 12,00 9,00 9,00 9,00 9,00 12,00 12,00 12,00	4.42	4.00 4.00 10.00 8.00 7.00 7.00 5.00 6.00 6.00 6.00 4.00 4.00 4.00 4.00 8.00 8.00 5.00 5.00 5.00 6.00 6.00 6.00 6.00 6	
Landisville, Pa. Plant Food (5772)	5.26	5.00	11.37	8.00	6.19	6.00	
INDEPENDENT MANUFACTURING CO. Philadelphia, Pa. Consumer 2-8-10 Fertilizer (5567) Consumer 2-9-5 Fertilizer (5563) Consumer 2-9-5 Fertilizer (5563) Consumer 2-9-5 Fertilizer (5968) Consumer 2-9-5 Fertilizer (6169) Consumer 2-12-6 Fertilizer (6165) Consumer 3-12-6 Fertilizer (6161) Consumer 4-16-4 Fertilizer (6160) Consumer 4-16-4 Fertilizer (5561) Consumer 5-8-7 Fertilizer (5562) Consumer 5-8-7 Fertilizer (5162) Consumer 5-10-10 Fertilizer (5566) Standard 2-12-5 Special Wheat Fertilizer	2.16 2.15 2.25 3.02 2.30 2.30 3.28 4.08 4.48 4.92 5.12	2.00 2.00 2.00 2.00 2.00 2.00 2.00 4.00 4	8.52 8.57 9.08 10.37 9.63 12.44 12.48 *14.72 *15.78 8.31 10.84 *9.80	8.00 8.00 9.00 9.00 9.00 12.00 12.00 16.00 8.00 10.00	10.39 10.11 5.49 5.24 5.04 6.18 6.79 4.57 4.30 7.02 5.87 9.97	10.00 10.00 5.00 5.00 5.00 6.00 4.00 7.00 5.00 10.00	
Standard 2-12-5 Special Wheat Fertilizer (6157) Standard 3-10-10 Fertilizer (5569) Standard 4-8-10 Fertilizer (5568) Standard 5-8-7 Fertilizer (5565) Standard 5-8-7 Fertilizer (6163) Standard 5-10-10 Fertilizer (5570) Standard 5-10-10 Fertilizer (564) Standard 6-8-5 Fertilizer (5564) Standard 6-8-5 Fertilizer (6166)	0.00	0.00	3.0.00	12.00 10.00 8.00 8.00 8.00 10.00 10.00 8.00 8	5.58 11.21 10.39 7.00 7.06 9.61 10.00	5.00 10.00 10.00 7.00 7.00 10.00 10.00 5.00	
LANCASTER BONE FERTILIZER CO., INC., Quarryville, Pa. Conestoga 2-8-10 (5548) Conestoga 3-12-6 (5302) Conestoga 3-12-6 (5546) Conestoga 4-16-4 (5550) Conestoga 4-16-4 (5550) Conestoga Grain Special (6097) Conestoga Grain Special (6097) Conestoga Harvest Queen (5301) Conestoga Harvest Queen (5549) Conestoga Harvest Peerless (5551) Conestoga Potato Special (5547) Conestoga Truckers Special (5544)	0.07	2.00 3.00 4.00 2.00 2.00 2.00 2.00 2.00 4.00 4	13.07	8,00 12,00 12,00 12,00 12,00 12,00 9,00 9,00 12,00 10,00 8,00	6.56 6.27 *4.79 5.01	6.00 6.00 5.00	
LEBANON FERTILIZER WORKS Lebanon, Pa. Levan's 1-10-5 (5599) Levan's 2-8-10 (5604) Levan's 2-9-5 (5603) Levan's 2-12-4 (5601) Levan's 2-12-6 (5595) Levan's 3-5-12 (5598) Levan's 3-12-6 (5594) Levan's 4-8-7 (5600)	1.24 2.00 2.13 2.01 2.10 3.05 3.05 3.07 4.10 4.00 4.22 4.19 5.29 5.28	1.00 2.00 2.00 2.00 2.00 3.00 3.00 4.00 4.00	10.42 8.27 9.02 12.16 12.12 5.26 12.20 8.12 8.42	9.00 12.00 12.00 5.00 12.00 8.00 8.00	5.53 10.03 5.32 4.79 6.12 12.76 6.22 7.42 8.05 4.14 10.18 7.01 5.13	5.00 4.00 6.00 12.00 6.00 7.00 8.00 4.00 10.00 7.00	
FRED E. LORD, INC., Espy, Pa. Lord's 2-8-10 (5804) Lord's 2-12-6 (5173) Lord's 4-8-8 (5174) Lord's 4-8 (5799) Lord's 5-10-5 (5171) Lord's 5-10-5 (5800)	2.07 2.19 4.20 4.25 5.22 5.01	2.00 2.00 4.00 4.00 5.00	9.07 12.64 8.54 8.62	8.00 12.00 8.00 8.00 10.00	8.03	10.00 6.00 8.00 8.00 5.00	
MILLER CHEMICAL & FERTILIZER CORP. Baltimore, Md. Rich Yield 2-8-10 (5616) Rich Yield 2-12-4 Farmers Profit (5617) Rich Yield 2-12-4 Farmers Profit (6100)	2.02 2.16 2.13	2.00 2.00 2.00	8.05 12.01 12.07	8.00 12.00 12.00	10.31 4.46 3.97	10.00 4.00 4.00	
*Deficient							

	NITRO	OGEN	AVAII PHOSPHO	ABLE RIC ACID		POTASH	
MANUFACTURER AND BRAND NAME	Found	Guar.	Found	Guar.	Found	Guar.	As Muriate
	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.
Rich Yield 2-12-6 (5615) Rich Yield 2-12-6 (5798) Rich Yield 2-12-6 (5798) Rich Yield 3-12-6 (5267) Rich Yield 3-12-6 (5796) Rich Yield 3-12-6 (6086) Rich Yield 4-8-8 Fotato & Vegetable	1.84 2.12 2.26 *2.62 3.82 3.26	2.00 2.00 2.00 3.00 3.00 3.00	12.35 12.67 12.36 *11.55 *11.64 12.25	12.00 12.00 12.00 12.00 12.00 12.00	6.60 6.62 6.35 6.06 *5.71 6.58	6.00 6.00 6.00 6.00 6.00	
(5268) Rich Yield 4-8-8 Potato & Vegetable	3.91	4.00	8.51	8,00	7.81	8.00	
(5618) Rich Yield 4-16-4 (5272) Rich Yield Fish Brand Super Quality	*3.78 4.29	4.00 4.00	8.16 *15.60	8.00 16.00	9.85 4.28	8.00 4.00	
Rich Yield Fruit & Tree Food (5619) Rich Yield Harvest Queen (5661) Rich Yield Harvest Queen (6085)	2.13 10.01 2.12 2.03	2.00 10.00 2.00 2.00	12.07 7.69 9.13 9.17	12.00 6.00 9.00 9.00	6.89 4.25 5.95 5.00	6.00 4.00 5.00 5.00	
MYERSTOWN FERTILIZER WORKS Myerstown, Pa. Corn & Potato Grower 4-8-5 (5578) Corn & Potato Grower 4-8-7 (5579) Farmers Special 3-10-3 (5580)	*2.25 *2.61 *2.57	4.00 4.00 3.00	12.35 9.37 10.20	8.00 8.00 10.00	*3.62 7.08 4.27	5.00 7.00 3.00	
READING BONE FERTILIZER COMPANY Reading, Fa. Reading 2-8-10 (5524) Reading 2-9-5 (5333) Reading 2-9-5 (5516) Reading 2-9-5 (5516) Reading 2-9-5 (6043) Reading 3-9-5 (6044) Reading 3-12-6 (5519) Reading 3-12-6 (6044) Reading 4-8-8 (5309) Reading 4-8-8 (5309) Reading 4-8-8 (5309) Reading 4-16-4 (5518) Reading 4-16-4 (5518) Reading 4-16-5 (5517) Reading 5-10-5 (5517) Reading 5-10-5 (5690) Reading All Crop Special 2-12-6 (5308) Reading All Crop Special 2-12-6 (5525) Reading All Crop Special 2-12-6 (6089)	2.01 1.82 2.05 1.88 2.05 3.17 3.13 4.30 *3.55 4.02 4.15 5.17 5.29 2.12 2.03 1.82 2.17 2.28	2,00 2,00 2,00 2,00 2,00 3,00 4,00 4,00 4,00 4,00 4,00 5,00 5,00 2,00 2,00 2,00 2,00	9,43 9,55 10.75 9,56 8,96 12,03 12,03 12,03 16,10 10,76 9,54 16,10 10,19 12,65 12,72 13,11 12,80 12,73	8.00 9.00 9.00 9.00 9.00 12.00 8.00 8.00 8.00 16.00 10.00 10.00 12.00 12.00 12.00 12.00 12.00	10.12 4.90 5.82 5.23 5.01 6.20 6.57 7.90 *7.43 8.38 4.66 4.79 5.70 6.42 6.54 *5.08	10.00 5.00 5.00 5.00 5.00 6.00 8.00 8.00 8.00 4.00 4.00 5.00 6.00 6.00 6.00 6.00	
F. 5. RCYSTER GUANO COMPANY 8altImore, Md. Royster Fertilizer 4-16-10 (5809) Royster Banner Guano (5195) Royster Banner Guano (5195) Royster Banner Guano (5464) Royster Baner Guano (5702) Royster Big Bully Guano (512) Royster Big Bully Guano (5367) Royster Big Bully Guano (5461) Royster Gurlew Guano (5463) Royster Curlew Guano (5463) Royster Dependable Truck Guano (5706) Royster Gem Grain Guano (5706) Royster Gem Grain Guano (5700) Royster Gem Grain Guano (5807) Royster Hercules Guano (5807) Royster Hercules Guano (5462) Royster Hercules Guano (5924) Royster Hercules Guano (5462) Royster Master Grain Guano (5113) Royster Master Grain Guano (5473) Royster Master Grain Guano (5473) Royster Master Grain Guano (5670) Royster Master Grain Guano (5673) Royster Master Grain Guano (5673) Royster Master Grain Guano (5808) Royster Master Grain Guano (5808) Royster Master Grain Guano (5808) Royster Master Grain Guano (5366) Royster Master Grain Guano (5366) Royster Trojan Guano (5366) Royster Trojan Guano (5366) Royster Trusty Guano (5367) Royster Trusty Guano (5368) Royster Trusty Guano (5698) Royster Trusty Guano (5698) Royster Trusty Guano (5698)	4,01 1,87 2,00 2,04 2,03 1,89 2,02 2,01 3,03 3,09 5,28 5,23 2,14 2,17 2,16 4,21 4,51 4,17 4,20 2,05 2,01 2,01 2,01 2,05 2,01 2,01 2,01 2,01 2,01 2,01 2,01 2,01	4.00 2.00 2.00 2.00 2.00 2.00 2.00 3.00 3	16.32 8.47 8.36 8.33 9.46 9.14 9.16 9.56 12.41 12.76 10.02 12.45 12.47 12.47 12.47 12.45 12.47 12.11 12.03 12.73 12.13 12.06 12.81 12.09 12.09 1	16.00 8.00 8.00 8.00 9.00 9.00 9.00 12.00	9.83 10.24 10.10 10.02 5.12 5.22 5.10 6.57 5.00 6.57 4.37 4.37 4.37 4.43 4.01 4.44 4.52 4.15 6.20 6.03 6.13 6.22 6.59 6.44 6.22 6.59 6.44 7.7 7.81 8.36 8.13	10.00 10.00 10.00 10.00 5.00 5.00 5.00 6.00 6.00 4.00 4.00 4.00 4.00 6.00 6	
CHARLES H. SEIBERT, Myerstown, Pa. Grade #1 2-10-5 (5587) (5587) (586) (7ade #2 2-8-10 (5586) (7ade #3 2-12-6 (5585) (7ade #4 4-8-8 (5584) (7ade #5 4-16-10 (5581) (7ade #6 5-10-10 (5583) (7ade #7 4-16-4 (5582) (7ade #8 3-12-6 (5588)	2.27 2.11 2.29 4.27 4.01 4.85 4.00 3.96	2.00 2.00 2.00 4.00 4.00 5.00 4.00 3.00	10.97 8.90 12.54 8.41 17.48 10.87 16.26	10.00 8.00 12.00 8.00 16.00 10.00 16.00	5.55 10.47 5.97 8.16 10.10 9.83 4.50 5.94	5.00 10.00 6.00 8.00 10.00 10.00 4.00 6.00	
M. L. 5HOEMAKER & CO., INC. Philadelphia, Pa. Swift Sure 2-8-10 (5555) Swift Sure 2-9-5 (5575) Swift 5ure 2-9-5 (6144) 5wift 5ure 2-12-6 (6145) 5wift 5ure 2-12-6 (6145) 5wift 5ure 3-12-6 (5576) 5wift Sure 3-12-6 (6146)	2.08 2.29 2.30 2.26 1.85 3.05 3.13	2.00 2.00 2.00 2.00 2.00 2.00 3.00 3.00	9.22 9.60 9.96 13.72 13.35 12.17	8.00 9.00 9.00 12.00 12.00 12.00	10.22 5.18 6.11 8.09 8.24 6.07 5.93	10.00 5.00 5.00 6.00 6.00 6.00 6.00	
*Deficient							

TABLE III. ANALYSES OF COMPLETE FERTILIZERS—FURNISHING NITROGEN, PHOSPHORIC ACID AND POTASH

MANUFACTURER AND BRAND NAME	NITR	OGEN	AVAI PHOSPH	LABLE ORIC ACID		POTASH	
MANUFACTURER AND BRAND NAME	Found	Guar.	Found	Guar.	Found	Guar.	As Muriate
	P. ct.	P. ct.	P. ct.	P. ct.	P. et.	P. et.	P. ct.
Swift Sure 4-8-7 (5877) Swift Sure 4-12-4 (6147) Swift Sure 5-8-7 (5884)	3.90 *3.78 S.01	4.00 4.00 S.00	8.19 13.S5 8.41	8.00 12.00 8.00	7.57 4.42 8.21	7.00 4.00 7.00	
THE SMITH AGRICULTURAL CHEMICAL CONFANY, Columbus, Ohio Sacco 2-8-10 (SSIO) Sacco 2-12-6 (5954) Sacco 4-16-4 (SSO9)	2.04 2.27 4.28	2.00 2.00 4.00	8.68 12.90 16.26	8.00 12.00 16.00	10.06 6.44 4.68	10.00 6.00 4.00	
SOMERSET COUNTY FERTILIZER WORKS, INC., Somerset, Pa. Beaver Erand 2-8-10 (6007) Seaver Srand 2-9-S (6009) Seaver Srand 2-12-4 (6008) Beaver Srand 2-12-6 (600S) Seaver Erand 4-12-4 (6012)	«2.03 2.22 2.21 2.00 4.04	2.00 2.00 2.00 2.00 2.00 4.00	8.73 *8.75 12.38 12.28 12.91	0.00	5 60	10.00 5.00 4.00 6.00 4.00	
THE SUMMERS FERTILIZER CO., INC. Baltimore, Md. Summer's 4-8-12 (5611) Summer's S-10-S (S612)	4.29 S.27	4.00	9.05 10.6S	8.00	12.43 S.80	12.00 S.00	
SWACK FERTILIZER CO., DuBois, Pa. Swack's 2-8-10 (S121) Swack's 2-9-5 (5118) Swack's 2-9-5 (5832) Swack's 2-9-5 (5834) Swack's 2-12-4 (5104) Swack's 2-12-4 (5119) Swack's 2-12-4 (5830) Swack's 2-12-4 (6024) Swack's 2-12-6 (5103) Swack's 2-12-6 (5103) Swack's 2-12-6 (5103) Swack's 2-12-6 (5946) Swack's 2-12-6 (5953) Swack's 2-12-6 (5953) Swack's 2-12-6 (6028) Swack's 2-12-6 (5106) Swack's 3-12-6 (5107) Swack's 4-8-8 (5105) Swack's 4-8-8 (5105) Swack's 4-8-8 (5105) Swack's 4-8-8 (5105) Swack's 4-8-8 (5834) Swack's 4-8-8 (5834) Swack's 4-12-4 (5115) Swack's 4-12-4 (5831) Swack's 4-12-4 (5833) Swack's 5-10-5 (5379)	2.08 2.02 1.91 2.00 2.23 2.23 2.29 2.20 2.13 2.29 2.11 2.19 3.29 3.19 3.29 4.27 4.24 4.24 4.24 4.24 4.25 4.20 5.30	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	8.16 9.41 9.03 9.36 12.11 12.70 12.35 12.36 12.36 12.97 12.63 12.41 12.33 12.27 12.18 8.73 8.73 8.12 8.20 8.00 8.89 12.19 17.58 10.26	8.00 9.00 9.00 9.00 12.00	10.71 S.366 S.365 S.489 4.07 4.461 4.37 *5.54 6.54 6.54 6.634 6.634 6.634 8.538 8.531 7.50 8.531 4.09 4.09 4.07 5.66 6.61 8.538 8.531 8.538 8.531 8.538 8.531 8.538 8.53	10.00 5.00 S.00 S.00 4.00 4.00 4.00 4.00 6.00	
SWIFT & COLPANY FERTILIZER WORKS Baltimore, Md. Swift's Red Steer 2-8-10 (5404) Swift's Red Steer 2-8-10 (5838) Swift's Red Steer 2-8-10 (5873) Swift's Red Steer 2-8-10 (5873) Swift's Red Steer 2-9-5 (5732) Swift's Red Steer 2-9-5 (5732) Swift's Red Steer 2-12-4 (5233) Swift's Red Steer 2-12-4 (5203) Swift's Red Steer 2-12-6 (5803) Swift's Red Steer 2-12-6 (5803) Swift's Red Steer 2-12-6 (5803) Swift's Red Steer 2-12-6 (5807) Swift's Red Steer 2-12-6 (5872) Swift's Red Steer 2-12-6 (5975) Swift's Red Steer 2-12-6 (5937) Swift's Red Steer 3-12-6 (5975) Swift's Red Steer 3-12-6 (5804) Swift's Red Steer 3-12-6 (5804) Swift's Red Steer 3-12-6 (5804) Swift's Red Steer 3-12-6 (58038) Swift's Red Steer 4-8-8 (5488) Swift's Red Steer 4-8-8 (5409) Swift's Red Steer 4-12-4 (5230) Swift's Red Steer 4-12-4 (5806) Swift's Red Steer 4-12-4 (5806) Swift's Red Steer 4-12-4 (5940) Swift's Red Steer 4-12-4 (5967) Swift's Red Steer 4-16-4 (5807) Swift's Red Steer 4-16-4 (5807) Swift's Red Steer 4-16-4 (5807) Swift's Red Steer 5-10-5 (5508) Swift's Red Steer 5-10-5 (5508) Swift's Red Steer 5-13-8 (5939) Swift's Red Steer 5-13-8 (5939) Swift's Red Steer 5-10-6-4 (5408) Vigoro (5771)	1.87 2.00 2.01 1.82 2.01 2.19 2.19 2.11 2.01 *1.76 2.12 2.08 2.06 2.29 3.29 3.01 3.00 4.08 4.09 3.95 4.19 4.00 4.12 *2.11 4.83 5.01 5.01 5.11 0.23 4.29	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	8.03 8.98 8.87 9.61 12.22 12.35 12.57 12.42 12.31 12.61 12.99 12.95 12.33 12.60 12.49 12.49 12.49 12.71 12.49 12.71 12.72 13.21 12.78 14.61 12.78 12.78 13.78 13.78 16.12	8.00 8.00 8.00 9.00 12.00	*9.84 9.81 10.78 S.59 4.03 4.28 4.32 6.25 6.37 6.22 6.49 6.21 6.30 6.21 6.30 6.27 6.11 6.33 *7.67 8.18 4.04 4.33 4.16 8.16 8.16 8.16 8.17 8.17 8.17 8.18	10.00 10.00 10.00 5.00 4.00 4.00 6.00 6.00 6.00 6.00 6.00 6	
TENNESSEE CORPORATION Lockland, Ohio Loma (S773)	S.14	S.00	10.66	10.00	4.00	4.00	
I. P. THOMAS & SON COMPANY Camden, N. J. Victor Potash Fertilizer (S6S9)	2.57	2.00	10.18	9.00	5.65	s.00	
TRENTON BONE FERTILIZËR COMPANY Trenton, N. J. Special Mixture 2-9-5 (S955) Trenton 3-12-6 (5956)	2.27 3.21	2.00	9.47 12.26	9.00	5.44 6.02	S.00 6.00	
F. W. TUNNELL & COMPANY, INC. Fritadelphia, Fa. Tunnell's 2-8-10 Fertilizer (SSS9) Deficient	2.19	2.00	8.47	8.00	10,54	10.00	

TABLE III. A	NALYSES OF COMPLETE FEI	NITRO	-	AVAIL PHOSPHO	ABLE		POTASH	
MANUFACTUR	ER AND BRAND NAME	Found	Guar.	Found	Guar.	Found	Guar.	As Muriate
Tunnell's 2-8-14 Tunnell's 2-8-16 Tunnell's 2-9-5 Tunnell's 2-9-5 Tunnell's 2-9-5 Tunnell's 2-10- Tunnell's 2-12- Tunnell's 2-12- Tunnell's 2-12- Tunnell's 2-12- Tunnell's 3-12- Tunnell's 3-12- Tunnell's 3-12- Tunnell's 4-8-8	Fertilizer (6149) 6 Fish Frand (6153) 6 Fertilizer (5558) 6 Fertilizer (5764) 6 Fertilizer (5961) 6 Fertilizer (6152) 6 Fertilizer (6152)	P. ct. 2 .29 2 .19 2 .25 2 .28 2 .26 2 .30 2 .23 2 .30 2 .27 2 .28 2 .19 2 .29 3 .29 4 .08 4 .12 4 .02 4 .12 4 .05 4 .15	P. ct. 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.	P. ct. 3,65 8,51 8,93 9,79 9,38 9,96 9,93 10,37 12,51 12,73 12,60 12,35 12,91 12,44 12,52 8,67 8,87 8,04 8,47 12,20 13,07	P. ct. 8.00 8.00 8.00 9.00 9.00 9.00 9.00 12.00 12.00 12.00 12.00 12.00 8.00 8.00 8.00 8.00 12.00 12.00	P. ct. 10.63 10.69 *9.76 5.21 5.45 5.17 4.83 6.83 6.90 6.71 5.85 6.21 6.09 8.55 8.19 10.03 11.01 4.07 4.51	P. ct. 10.00 10.00 10.00 5.00 5.00 5.00 6.00 6.00 6.00 6.00	P. ct.
Paltimore, V-C 2-8-10 Fert V-C 2-8-10 Fert V-C 2-9-5 Ferti V-C 2-9-5 Ferti V-C 2-12-4 Fert V-C 2-12-4 Fert V-C 2-12-6 Fert V-C 3-12-6 Fert V-C 4-12-4 Fert V-C 4-12-4 Fert V-C 4-12-6 Fert V-C 4-12-6 Fert V-C 4-12-6 Fert V-C 4-12-6 Fert V-C 4-13-6 Fert V-C 5-10-5 Fert V-C	:illzer (5871) :illzer (5854) !lizer (5854) !lizer (5157) !lizer (5974) !lizer (5972) !lizer (5972) !lizer (5973) !lizer (5973) !lizer (5973) !lizer (5973) !lizer (5873) !lizer (5873) !lizer (5873) !lizer (5881) !lizer (5883) !lizer (5983) !lizer (5983) !lizer (5983) !lizer (5983) !lizer (5983) !lizer (5983) !lizer (5883) !lizer (5983) !lizer (5883) !lizer (5883) !lizer (5883) !lizer (5883) !lizer (5883) !lizer (5883) !lizer (5882) !lizer (5882) !lizer (5882) !lizer (5879) !lizer (6054) !lizer (5979) !lizer (6054)	2.19	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	8.06 8.99 9.26 9.69 9.34 12.33 12.13 12.85 12.36 12.36 13.41 12.80 12.29 12.88 12.93 12.50 12.02 12.47 12.71 12.50 12.59	12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 16.00 16.00 10.00 9.00	6.03 6.52 6.10 8.56 8.55 4.09 4.24 4.24 4.25 4.00 4.90	10.00 10.00 5.00 5.00 5.00 4.00 4.00 4.00 6.00	
WESTERM F ASSOCIATI Growell Fertil	ENNSYLVANIA NURSERYMANUS ON, Pittsburgh, Pe. Lizer (6074)	4.26	4.00	12.30	12.00	4.01	4.00	
Dempwolf's 2-8 Dempwolf's 2-1 Dempwolf's 2-1 Dempwolf's 2-1 Dempwolf's 2-1 Dempwolf's 2-1 Dempwolf's 2-1 Dempwolf's 3-8 Dempwolf's 4-8 Dempwolf's 4-8 Dempwolf's 4-8 Dempwolf's 4-9 Dempwolf's 4-1 Dempwolf's 4-1 Dempwolf's 4-1 Dempwolf's 4-1 Dempwolf's 6-1 Dempwolf's 5-1 Dempwolf's 5-1 Dempwolf's 6-1 Dempwolf's 7-1 Dempwolf's 8-1 Dempwo	3-10 (5632) 12-4 (5634) 12-4 (5634) 12-6 (5437) 12-6 (5633) 12-6 (5794) 3-12 for Tobecco (5625) 3-7 (5636) 3-8 (5622) 3-12 for Tobecco (5641) 12-4 (5623) 12-12 (5637) 16-4 (5624) 10-5 (5431) 10-5 (5431) 10-5 (5639) neral Crop (5629) neral Crop (5629) neral Crop (5797) gh Test (5432) gh Test (5626) teto & Truck (5643) anderd (5631) becco Special (5638) p Dresser (5441) p Dresser (5535)	2.30 2.22 2.29 2.28 2.21 2.29 2.15 3.01 4.16 4.21 4.08 4.10 4.53 4.30 4.25 5.30 5.29 3.301 3.26 8.51 8.24 5.28 8.21 6.01 6.04	2.00 2.00 2.00 2.00 2.00 2.00 3.00 4.00 4.00 4.00 4.00 4.00 5.00 3.00 3.00 3.00 3.00 3.00 3.00 6.00	12.56 17.64 16.64 8.16 9.25 9.14 8.06 6.88	12.00 12.00 12.00 12.00 12.00 8.00 8.00 8.00 8.00 12.0	7.24 12.31 *6.80 7.88 8.83 12.63 4.79	12.00 4.00 5.00 5.00 6.00 6.00 14.00 14.00 7.00	
YORK STO Cramer's York Cramer's York Cramer's York Cremer's York Cramer's York	NE & SUPPLY CO., York, Pa 2-8-10 (5654) 2-9-5 (5650) 2-12-4 (5648) 2-12-6 (5649) 3-12-6 (5645) 4-8-7 (5651) 4-8-8 (5644)	2,30 2,78 2,84 2,90 3,81 4,65 4,52	2.00 2.00 2.00 2.00 3.00 4.00 4.00	10.08 12.07 12.62 12.08	12.00 12.00 8.00	11.78 6.03 7.17 7.43 7.25 8.43 8.20	10.00 5.00 4.00 6.00 6.00 7.00 8.00	

TABLE III. ANALYSES OF COMPLETE FERTILIZERS—FURNISHING NITROGEN, PHOSPHORIC ACID AND POTASH

MANUEACTUPED AND DRAND MARC	NITRO	OGEN	PHOSPHO	LABLE ORIC ACID		POTASH	ſ
MANUFACTURER AND BRAND NAME	Found	Guar.	Found	Guar.	Found	Guar.	As Muriat
	P. ct.	P. ct.	P. et.	P. ct.	P. ct.	P. ct.	P. ct.
ramer's York 4-8-12 (5653)	4.20	4.00	9 10	9.00	14.20		
ramer's York 4-12-4 (5646) ramer's York 5-10-5 (5655)	4.75 5.29	4.00	9.10 12.45 10.26	8.00	14.32 5.21	12.00	
Average	3.38			10.00	6.34	5.00	
AVOLAGO	0.00	~	11.50		6.73		
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		1					
	- 3						
	1						
		0.00					

	NITR	OGEN	PHOSPH	ORIC ACID
MANUFACTURER AND BRAND NAME	Found	Guar.	Found	Guar
	P. ct.	P. et.	P. ct.	P. ct.
THE AMERICAN AGRICULTURAL CHEMICAL CO. New York, N. Y. Tine Ground Bone (6071) Ture Raw Bone (6070)	2.74 4.46	2.47 3.70	25.90 23.30	23.00
ARMOUR FERTILIZER WORKS, Baltimore, Md. rmour's Raw Bone Meal (5721)	3.94	3.70	22.50	20.50
ASSOCIATED CHEMICAL COMPANY, Hagarstown, Md. line Bone Meal (5326) line Bone Meal (5892) lure Raw Bona (5325) lure Raw Bona (5891)	3.01 2.B0 4.21 4.01	2.47 2.47 3.70 3.70	25.20 26.10 22.80 22.70	22.00 22.00 20.00 20.00
BAUGH & SONS CO., Philadalphia, Pa. Saugh's Pure Steamed Bone Meal (5209) Saugh's Raw Bone Meal (5208) Saugh's Raw Bone Meal (5276) Saugh's Raw Bone Meal (5722) Saugh's Raw Bone Meal (6108)	2.71 4.20 3.76 4.15 4.00	2.47 3.70 3.70 3.70 3.70	25.40 22.60 20.60 21.60 21.30	23.00 20.50 20.50 20.50 20.50
CONSOLIDATED-BY PRODUCT CO., Philadalphia, Pa. Consolidated Bone Meal (5768)	1.15	0.B0	33.70	32.00
THE DAVISON CHEMICAL CORPORATION, Baltimore, Md. Raw Bone Meal (6081)	4.10	3.70	22.60	20.00
EASTERN STATES FARMERS' EXCHANGE, Springfield, Mass. Eastern Statas Ground Steamed Bone (5823)	3.20	2.30	26.20	23.00
FARMERS FERTILIZER WORKS, Elizabethtown, Pa. Farmers Bone Maal (5543)	4.09	3.70	22.60	20,00
GRIFFITH & BOYD COMPANY, Baltimore, Md. Pure Fine Ground Bone Maal (5240)	4.16	3.70	22.80	20,00
MILLER CHEMICAL & FERTILIZER CORP., Baltimore, Md. Raw Bone Meal (60B7)	4.03	3.70	22.30	20.50
F. W. TUNNELL & CO., INC., Philadelphia, Pa. Raw Ground Bone (5556)	4.00	3.70	21.50	21,50
Average	3.62		23.77	

TABLE V. SUPERPHOSPHATE AND LIME PHOSPHATE FERTILIZERS—FURNISHING PHOSPHORIC ACID

		-1	PHOSPHO		Y 1	lubla
MANUFACTURER AND BRAND NAME	Tot		Avai		Insol	
	Found P. ct.	P. ct.	Found P. ct.	Guar. P. et.	Found P. ct.	Guar P. ct.
	1.66.	1.00.	1.00.	1,00		2100
SUPERPHOS PHATE FERTILIZERS						
THE ACME GUANO CO., Baltimore, Md. Acme 20% Superphosphate (5282) Acme 20% Superphosphate (5739)			21.58 21.14	20.00		
THE AMERICAN AGRICULTURAL CLEMICAL CO. New York, N. Y. AA 16% Superphosphate (5203) AA 16% Superphosphate (5742) AA 20% Superphosphate (5153) AA 20% Superphosphate (5205) AA 20% Superphosphate (5205) AA 20% Superphosphate (5244) AA 20% Superphosphate (5844) AA 20% Superphosphate (5813) AA 20% Superphosphate (5813) AA 20% Superphosphate (5813) AA 20% Superphosphate (5905) AA 20% Superphosphate (5905) AA 20% Superphosphate (6020) AA 20% Superphosphate (6020) AA 20% Superphosphate (6062) AA 20% Superphosphate (6062) AA 20% Superphosphate (6099) AA 20% Superphosphate (6121) AA 20% Superphosphate (6121) AA 20% Superphosphate (6127)			16.72 17.0B 17.30 21.16 21.56 20.24 21.76 21.12 21.90 21.86 21.70 21.64 21.96 20.72 20.76	16.00 16.00 16.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00		
ARMOUR FERTILIZER WORKS, Beltimore, Md. rmour's Big Crop Superphosphate 16% (5127) rmour'e Big Crop Superphosphate 16% (5707) rmour's Big Crop Superphosphate 16% (5703) rmour's Big Crop Superphosphate 16% (5933) rmour's Big Crop Superphosphate 20% (5107) rmour's Big Crop Superphosphate 20% (5128) rmour's Big Crop Superphosphate 20% (5236) rmour's Big Crop Superphosphate 20% (5375) rmour's Big Crop Superphosphate 20% (5470) rmour's Big Crop Superphosphate 20% (5475) rmour's Big Crop Superphosphate 20% (5714) rmour's Big Crop Superphosphate 20% (5718) rmour's Big Crop Superphosphate 20% (5718) rmour's Big Crop Superphosphate 20% (5748) rmour's Big Crop Superphosphate 20% (5910) rmour's Big Crop Superphosphate 20% (5910) rmour's Big Crop Superphosphate 20% (5927) rmour's Big Crop Superphosphate 20% (6023) rmour's Big Crop Superphosphate 20% (6023) rmour's Big Crop Superphosphate 20% (6025)			17.30 16.76 16.46 16.72 20.7B 20.94 20.86 21.18 20.84 20.84 20.86 21.78 21.78 21.78 21.78	16.00 16.00 16.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00		
BALTIMORE FERTILIZER CO., Baltimore, Md. oneet 16% Superphosphate (586B) onest 20% Superphosphate (5869)			17.64 21.50	16.00 20.00		
BAUGH & SONS CO., Philadelphia, Pa. Baughphos The Ideal 16% Superphosphate (5275) Saughphos The Ideal 16% Superphosphate (5723) Saughphos The Ideal 16% Superphosphate (5736) Saughphos The Ideal 20% Superphosphate (5271) Saughphos The Ideal 20% Superphosphate (5737)			18.22 20.69 17.04 20.66 21.7B	16.00 16.00 16.00 20.00 20.00		
CARLISLE FERTILIZER WORKS, Carlisle, Pa. Carliele 16% Superphosphate (53B6) Carliele 20% Superphosphate (53B7)			16.90 21.22	16.00 20.00		
CENTRAL CHEMICAL CORPORATION OF MARYLAND Hagerstown, Md. Farmrite Superphosphate 16% (5220) Farmrite Superphosphate 16% (5255) Farmrite Superphosphate 16% (5519) Farmrite Superphosphate 16% (5729) Farmrite Superphosphate 16% (5895) Farmrite Superphosphate 16% (5895) Farmrite Superphosphate 20% (5197) Farmrite Superphosphate 20% (5259) Farmrite Superphosphate 20% (5728) Farmrite Superphosphate 20% (588B) Farmrite Superphosphate 20% (5900) Farmrite Superphosphate 20% (5900) Farmrite Superphosphate 20% (5901) Farmrite Superphosphate 20% (5951) Farmrite Superphosphate 20% (5951) Farmrite Superphosphate 20% (6053) Farmrite Superphosphate 20% (6073) Farmrite Superphosphate 20% (6073) Farmrite Superphosphate 20% (6073) Farmrite Superphosphate 20% (6073)			17.96 16.90 17.26 16.80 1B.7B 17.62 21.34 20.4B 20.98 20.10 21.56 20.92 20.08 20.88 20.88 20.32	16.00 16.00 16.00 16.00 16.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00		
COOPERATIVE FERTILIZER SERVICE Baltimore, Md. Baltimore, Md. C.F.S. 16% Superphosphate (6018) C.F.S. 20% Superphosphate (5916) C.F.S. 20% Superphosphate (6134)			16.48 21.22 21.06	16.00 20.00 20.00		
COOPERATIVE G.L.F. SOIL BUILDING SERVICE, INC., New York, N. Y. G.L.F. Superphosphate 20% (5502) G.L.F. Superphosphate 20% (Granular) (5490) G.L.F. Superphosphate 20% (Granular) (5497)			21.46 21.38 20.80	20.00 20.00 20.00		

TABLE V. SUPERPHOSPHATE AND LIME PHOSPHATE FERTILIZERS—FURNISHING PHOSPHORIC ACID

MANUFACTURER AND BRAND NAME	Tot	al	PHOSPHO Avai		Inso	uble
	Found	Guar.	Found	Guar.	Found	Gua
	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct
CUMBERLAND VALLEY COOPERATIVE ASSOCIATION						
Shippensburg, Pa. Id Reliable 20% Superphosphate (5264) Id Reliable 20% Superphosphate (5864)			20.90	20.00		
ld Reliable 20% Superphosphate (5864) ld Reliable 20% Superphosphate - Granulated			21.12	20.00		
(5865)			21.52	20.00		
THE DAVISON CHEMICAL CORPORATION Baltimore, Md.						
0% Superphosphate (5485) 0% Superphosphate (5498)			21.66	20.00		
vco Granulated 20% Superphosphate (5087)			20.68	20.00		
avco Granulated 20% Superphosphate (5146) avco Granulated 20% Superphosphate (5232)			20.48	20.00		
vco Granulated 20% Superphosphate (5499) vco Granulated 20% Superphosphate (5681)			21.34 21.12	20.00		
vco Granulated 20% Superphosphate (5835) vco Granulated 20% Superphosphate (5898)			22.02 21.54	20.00		
vco Granulated 20% Superphosphate (5898) vco Granulated 20% Superphosphate (5932) vco Granulated 20% Superphosphate (6004)			21.38	20.00		
vco Granulated 20% Superphosphate (6079) vco Granulated 20% Superphosphate (6140)			21.32	20.00		
EASTERN STATES FARMERS' EXCHANGE						
Springfield, Mass. stern States 20% Superphosphate (5161)			20.74	20.00		
stern States 20% Superphosphate (5759) stern States 20% Superphosphate (5992)			20.78	20.00		
stern States 20% Superphosphate - Granular			21.80	20.00		
(5131) stern States 20% Superphoaphate - Granular						
(5296) stern States 20% Superphosphate - Granular			20.90	20.00		
(5819) stern States 40% Superphosphate (5820)			21.40 41.06	20.00 40.00		
FARMERS FERTILIZER WORKS						
Elizabethtown, Pa. rmers Acid Phosphate 16% (5535)			16.08	16.00		
rmers Acid Phosphate 20% (5534)			20.08	20.00		
GRIFFITH & BOYD CO., Baltimore, Md. % Superphosphate (5323)			16.30	16.00		
ecial 20% Superphosphate (5239) ecial 20% Superphosphate (5314)			21.10	20.00		
ecial 20% Superphosphate (5358)			21.48	20.00		
ecial 20% Superphosphate (5361) ecial 20% Superphosphate (5989)			21.24	20.00		
LANCASTER BONE FERTILIZER CO., INC.						
Quarryville, Pa. nestoga Superphosphate 18% (5303)			18.52	18.00		
nestogs Superphosphate 18% (5553) nestoga Superphosphate 18% (6098)			18.58 18.30	18.00 18.00		
LEBANON FERTILIZER WORKS, Lebanon, Pa.						
van's Superphosphate 16% (5605) van's Superphosphate 20% (5592)			17.26 21.56	16.00 20.00		
FRED E. LORD, INC., Espy, Fa.						
rd's 20% Superphosphate (5802)			21.62	20.00		
MILLER CHEMICAL & FERTILIZER CORPORATION Beltimore, Md.						
ch Yield Superphosphate 16% (5620)			17.14	16.00 16.00		
ch Yield Superphosphate 16% (6082) ch Yield Superphosphate 20% (6265)			17,66 20,88	20.00		
ch Yield Superphosphate 20% (6083)			21.08	20.00		
READING BONE FERTILIZER CO., Reading, Pa. ading 16% Superphosphate (5525)			17.12	16.00		
ading 16% Superphosphate (5691) ading 16% Superphosphate (6090)			16.26 16.04	16.00 16.00		
ading 20% Supsrphosphate (5522) ading 20% Superphosphate (5692)			21.32 20.96	20.00		
F. S. ROYSTER GUANO CO., Baltimore, Md.						
yster Superphosphate 16% (5193) yster Superphosphate 16% (5244)			16.66 16.20	16.00 16.00		
wyster Superphosphate 16% (5701) wyster Superphosphate 20% (5114)			16.04 20.92	16.00 20.00		
yster Superphosphate 20% (53226) yster Superphosphate 20% (5368)			21.38 21.18	20.00		
yster Superphosphate 20% (5466)			20.00	20.00		
yster Superphosphate 20% (5472) yster Superphosphate 20% (5703)			21.46	20.00		
yster Superphosphate 20% (5922)			20.70	20.00		

TABLE V. SUPERPHOSPHATE AND LIME PHOSPHATE FERTILIZERS—FURNISHING PHOSPHORIC ACID

MANUTA CONTINUE AND ADDRESS OF THE PARTY OF		,		ORIC ACID		
MANUFACTURER AND BRAND NAME	Tot			ilable		oluble
	Found	Guar.	Found	Guar.	Found	Gua
THE SMITH AGRICULTURAL CHEMICAL COMFANY Columbus, Ohio Secco 20% Superphosphate (6118)	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct
SOMERSET COUNTY FERTILIZER WORKS, INC. Somerset, Pa. Beaver Brand 20% Superphoephate (6006)			20.56	20.00		
STANDARD WHOLESALE PHOSPHATE & ACID WORKS, INC., Baltimore, Md. Standard 16% Superphosphate (5260) Standard 20% Superphosphate (5261) Standard 20% Superphosphate (5746)			17.96 20.68 21.04	16.00 20.00 20.00		
THE SUMMERS FERTILIZER CO., INC. Saltimore, Md. Summers 20% Superphosphate (5613)			21.26	20.00		
SNACK FERTILIZER CO., DuBois, Pe. Swack's Superphosphate 20% (5378) Wack's Superphosphate 20% (5941) Weck's Superphosphete 20% (6026)			20.74 20.92 21.46	20.00 20.00 20.00		
SWIFT & COMPANY FERTILIZER WORKS 8altimore, Md. wift's Red Steer Superphosphate 20% (5231) wift's Red Steer Superphosphate 20% (5400) wift's Red Steer Superphosphate 20% (5754) wift's Red Steer Superphosphate 20% (5875) wift's Red Steer Superphosphate 20% (5920) wift's Red Steer Superphosphate 20% (5936)			21.62 21.34 21.92 21.66 21.72 21.28	20.00 20.00 20.00 20.00 20.00 20.00		
F. W. TUNNELL & CO., INC. Philadelphia, Fe. unnell's 16% Superphosphate (5572) unnell's 20% Superphosphate (5573) unnell's 20% Superphosphate (5664) unnell's 20% Superphosphate (5766) unnell's 20% Superphosphate (6156)			16.76 20.92 20.22 21.28 21.60	16.00 20.00 20.00 20.00 20.00		
VIRGINIA-CAROLINA CHEMICAL CORPORATION Ealtimore, Md. -C 16% Superphosphate (5217) -C 16% Superphosphate (5667) -C 16% Superphosphate (5667) -C 16% Superphosphate (5880) -C 16% Superphosphate (5880) -C 16% Superphosphate (5890) -C 16% Superphosphate (5973) -C 20% Superphosphate (5973) -C 20% Superphosphate (5216) -C 20% Superphosphate (5496) -C 20% Superphosphate (5496) -C 20% Superphosphate (5866) -C 20% Superphosphate (5879) -C 20% Superphosphate (5879) -C 20% Superphosphate (5864) -C 20% Superphosphate (5964) -C 20% Superphosphate (5984)			16.08 16.02 16.22 16.76 17.30 17.14 20.72 21.66 21.40 20.98 20.86 21.16 21.16	16.00 16.00 16.00 16.00 16.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00		
YORK CHEMTCAL WORKS, York, Pa. empwolf's Superphosphate 20% (5440) empwolf's Superphosphete 20% (5640)			21.44	20.00	1	
YORK STONE & SUPPLY CO., York, Pa. ramer's York 20% Superphosphate (5652)			20.68	20.00		

TABLE V. SUPERPHOSPHATE AND LIME PHOSPHATE FERTILIZERS—FURNISHING PHOSPHORIC ACID

		-1	PHOSPHO		Insol	ubla
MANUFACTURER AND BRAND NAME	Found	Guar.	Avai Found	Guar.	Found	Guar.
	P. ct.	P. et.	P. ct.	P. et.	P. ct.	P. ct.
LIME PHOSPHATE FERTILIZERS						
THE ACME GUANO CO., Baltimore, Md. me 16% Lime Phoephate (5283)			17.06	16.00		
THE AMERICAN AGRICULTURAL CHEMICAL CO. New York, N. Y. A Basic Lime Phosphate 16% (5743)			16.34	16.00		
ARMOUR FERTILIZER WORKS, Baltimore, Md. rmour'e Big Crop Lime Phosphate 16% (5710)			16.06	16.00		
BAUGH & SONS CO., Philadelphia, Pa. augh's Lime & Phosphate (5313) augh's Lime & Phoephate (5738)			16.76 17.22	16.00 16.00		
CENTRAL CHEMICAL CORPORATION OF MARYLAND Hagerstown, Md. arbo Lime Phosphate 16% (5320) arbo Lime Phosphate 16% (5732)			16.36 16.02	16.00 16.00		
LEBANON FERTILIZER WORKS, Lebanon, Pa. evan's Lime Phosphate (5593)			16.76	16.00		
F. S. ROYSTER GUANO CO., Baltimore, Md. oyster Lime Phosphate 16% (5806)			17.32	16.00		
SWIFT & COMPANY FERTILIZER WORKS Baltimore, Md. wift's Red Steer Lime Phosphate 16% (5756)			18,62	16.00		
VIRGINIA-CAROLINA CHEMICAL CORPORATION Baltimore, MdC Phosphate & Lime Mixture (6035)			16,68	16.00		
YORK CHEMICAL WORKS, York, Pa.			16.40	16.00		
Average			16.80			

MANUFACTURED AND DRAWD NAME	AVA	ILABLE IORIC ACID		POTASH	
MANUFACTURER AND BRAND NAME	Found	Guar.	Found	Guar.	As
	P. ct.	P. ct.	P. ct.	P. ct.	Muriate P. ct.
THE ACME GUANO CO., Saltimore, Md. Acme 0-14-6 (5287) Acme 0-14-6 (5741)	14.34 15.40	14.00	8.53 *4.41	6.00	
THE AMERICAN AGRICULTURAL CHEMICAL CO. New York, N. Y. AA Chieftain Mixture 0-14-6 (6103) AA Victory Mixture 0-12-5 (5689) AA Victory Mixture 0-12-5 (5744) AA XXX Mixture 0-12-12 (5390) AA XXX Mixture 0-12-12 (5420) AA XXX Mixture 0-12-12 (6115) AA XXX Mixture 0-12-12 (6115) AA XXX Mixture 0-12-12 (6118)	14.76 12.37 12.37 12.44 11.93 12.76 12.45	14.00 12.00 12.00 12.00 12.00 12.00	6.29 5.33 5.25 12.99 12.79 13.36 12.80	6.00 5.00 5.00 12.00 12.00 12.00	
ARMOUR FERTILIZER WORKS, Saltimore, Md. Armour's 8ig Crop Fertilizer 0-12-12 (6093) Armour's 8ig Crop Fertilizer 0-14-6 (5189) Armour's 8ig Crop Fertilizer 0-14-6 (5715) Armour's 8ig Crop Fertilizer 0-14-6 (5749) Armour's 8ig Crop Fertilizer 0-14-6 (6119)	12.48 14.46 14.14 14.34 14.56	12.00 14.00 14.00 14.00 14.00	12.86 6.40 *5.77 6.28 5.93	12.00 6.00 6.00 6.00 6.00	
8ALTIMORE FERTILIZER CO., Baltimore, Md. Honest 0-14-6 (5382)	15.68	14.00	6.09	6.00	
8AUGH & 50N5 CO., Philadelphia, Pa. 8augh's Phosphate & Potash Mixture 0-12-5 (6111)	13.26	12.00	*4.59	5.00	
Baugh's Phosphate & Potash Mixture 0-14-6 (5277)	15.22	14.00	5.91	6.00	
Baugh's Phosphate & Potash Mixture 0-14-6 (6102) CENTRAL CHEMICAL CORPORATION OF MARYLAND	15.08	14.00	6.63	6.00	
hagerstown, Md. Farmrite Fertilizer 0-14-6 (5897) Farmrite Fertilizer 0-14-6 (6051) Farmrite Potash Special 0-12-5 (5258) Farmrite Potash Special 0-12-5 (5321) Farmrite Potash Special 0-12-5 (5751) Farmrite Potash Special 0-12-5 (6052)	14.78 14.08 12.69 12.92 *11.21 12.07	14.00 14.00 12.00 12.00 12.00 12.00	6.15 7.10 5.51 5.05 5.07 6.31	6.00 6.00 5.00 5.00 5.00 5.00	
COOPERATIVE FERTILIZER SERVICE Baltimore, Md. C.F.5. O-14-6 (6016) C.F.5. O-14-6 (6139)	14.86 14.70	14.00 14.00	6.57 6.83	6.00 6.00	=====
COOPERATIVE G.L.F. SOIL BUILDING SERVICE, INC., New York, N. Y. G.L.F. 0-20-10 (5341)	20.14	20,00	*8.69	10.00	
CUMBERLAND VALLEY COOPERATIVE A55'N. Shippensburg, Pa. Old Reliable Valley Special 0-14-6 (5263) Old Reliable Valley Special 0-14-6 (5862)	14.08 15.50	14.00 14.00	6.96 5.82	6.00 6.00	
THE DAVISON CHEMICAL CORPORATION Estimore, Md. Davos Granulated Fertilizer 0-12-5 (5678) Davos Granulated Fertilizer 0-12-5 (5999) Davos Granulated Fertilizer 0-12-12 (5094) Davos Granulated Fertilizer 0-14-6 (5095) Davos Granulated Fertilizer 0-14-6 (5253) Davos Granulated Fertilizer 0-14-6 (5844) Davos Granulated Fertilizer 0-14-6 (5901)	13.33 12.74 12.42 14.90 15.08 15.46 14.68	12.00 12.00 12.00 14.00 14.00 14.00 14.00	4.93 4.85 12.10 6.77 6.03 6.03 6.42	5.00 5.00 12.00 6.00 6.00 6.00 6.00	
EASTERN STATES FARNERS' EXCHANGE 5pringfield, Mass. Eastern States 0-20-20 (5135) Eastern States 0-20-20 (5165) Eastern States 0-20-20 (5293) Eastern States 0-20-20 (5761) Eastern States 0-20-20 (5816) Eastern States 0-24-12 (5130) Eastern States 0-24-12 (5160) Eastern States 0-24-12 (5166) Eastern States 0-24-12 (5166) Eastern States 0-24-12 (5760) Eastern States 0-24-12 (5760) Eastern States 0-24-12 (5990) Eastern States 0-24-12 (5990) Eastern States 0-24-12 (6029)	20.58 20.08 20.54 20.12 20.86 24.88 24.38 24.72 24.50 24.10 24.48	20.00 20.00 20.00 20.00 20.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	20.94 20.56 20.24 21.32 21.58 13.25 13.14 12.64 12.85 14.13 13.21 12.95	20.00 20.00 20.00 20.00 20.00 20.00 12.00 12.00 12.00 12.00 12.00	
FARMER5 FERTILIZER WORKS Elizabethtown, Pa. Farmers Phosphate & Potash 0-12-5 (5531)	12.15	12.00	5.51	5.00	
GRIFFITH & 80YD CO., 8altimore, Md. Phosphate & Potash 0-14-6 (5348) Fhosphate & Potash 0-14-6 (5360) Phosphate & Potash 0-14-6 (5987) Special Grain Grower 0-12-5 (5322) Special Grain Grower 0-12-5 (5758)	14.26 14.62 15.02 *11.54 12.17	14.00 14.00 14.00 12.00 12.00	*5.80 *5.71 6.16 5.08 5.06	6.00 6.00 6.00 5.00 5.00	
LANCASTER SONE FERTILIZER CO., INC. Quarryville, Pa. Conestoga O-14-6 (5552)	14.92	14.00	*5.24	6.00	
LEBANON FERTILIZER WORKS, Lebanon, Pa. Levan's 0-12-5 (5591)	12.05	12.00	5.04	5.00	
FRED E. LORD, INC., Espy, Pa. Lord's 0-10-10 (5172) Lord's 0-10-10 (5803) Lord's 0-14-6 (5801)	10.27 10.70 14.80	10.00 10.00 14.00	*9.66 10.03 6.90	10.00 10.00 6.00	
*Deficient					

TABLE VI. ROCK AND POTASH FERTILIZERS—FURNISHING PHOSPHORIC ACID AND POTASH

P.et. P.et. P.et. P.et. P.et. P.et. P.et.	TABLE VI. ROCK AND POTASH FERTILI	AVAII	ABLE		POTASH	1
MILLER CHEMICAL & FERTILIZER CORP. Eeltimore, Md. Rich Yield O-10-10 (5269) Rich Yield O-10-10 (5269) Rich Yield O-10-2-5 (5266) Rich Yield O-10-2-5 (5266) READING PROBLE FERTILIZER CO., Reeding, Pe. Reeding Phosphete & Fotesh O-14-6 (5521) READING PROBLE FERTILIZER CO., Reeding, Pe. Reeding Phosphete & Fotesh O-10-10 (5610) SMIRRED COUNTY FERTILIZER WORKS, INC. SOMERSET COUNTY FERTILIZER WORKS Eeltimore, Md. Swift's Red Steer O-12-12 (5229) Swift's Red Steer O-12-12 (5229) Swift's Red Steer O-12-12 (5394) Swift's Red Steer O-12-12 (5394) Swift's Red Steer O-12-12 (5394) Swift's Red Steer O-14-6 (5757) F. W. THNYELL & COMPANY, INC. Finiadelphie, Pa. Tunnell's O-14-7 Fertilizer (6154) VICIGINA -CARCINA CHEMICAL CORFORATION Beltimore, Md. VICIGINA -CARCINA BY THE MC. The MC. The MC.	MANUFACTURER AND BRAND NAME		1	Found	Guar.	As Muriate
MILLER CHEMICAL & FERTYLIZER CORF.				P. ct.	P. ct.	P. ct.
READING BONE FERTILIZER CO., Reeding, Pe. Reeding Phosphete & Potesh O-14-6 (5521) F. S. ROYSTER GUANO CO., Baltimore, Md. Royster Phosphete & Potesh O-10-10 (5810) SOMERSET COUNTY FERTILIZER WORKS, INC. Somerset, Pe. Beaver Brend O-12-5 (6010) SWIFT & COMPANY FERTILIZER WORKS Beltimore, Md. Swift's Red Steer O-12-12 (5229) Swift's Red Steer O-12-12 (5837) Swift's Red Steer O-14-6 (5757) F. W. TURNELL & COMPANY, INC. Filladelphie, Pa. Tunnell's O-14-7 Fertilizer (6154) VIGUINIA-CAROLINA CHEMICAL CORPORATION Estitimore, Md. 12.05 V-C O-12-5 Fertilizer (6169) V-C O-12-5 Fertilizer (6037) V-C O-14-6 Fertilizer (6037) V-C O-14-6 Fertilizer (5851) YORK CHEMICAL WORKS, INC. Pe. Dempwolf's O-12-5 (5847) Land 12.00 VORK STONE & SUPPLY CO., York, Pe. Cramer's York O-12-5 (5647) V-C Ramer's York O-12-5 (5647)	Eeltimore, Md. Rich Yield 0-10-10 (5269) Rich Yield 0-12-5 (5266)	11.76 13.15	10.00 12.00	5.86	5.00	
SOMERSET COUNTY FERTILIZER WORKS, INC. Somereet, Pe.	PROPERCY POWER PROPERTY TYPE CO. Reeding, Pe.	15.08	14.00	6.05	6.00	
Somerset, Fe. Beever Brend O-12-5 (6010) SWIFT & COMPANY FERTILIZER WORKS Eeltimore, Md. Swift's Red Steer O-12-12 (5229) Swift's Red Steer O-12-12 (5229) Swift's Red Steer O-12-12 (5229) Swift's Red Steer O-12-12 (5837) Swift's Red Steer O-12-12 (5837) Swift's Red Steer O-12-12 (5929) F. W. TINNELL & COMPANY, INC. Philadelphie, Pa. Tunnell's O-14-7 Fertilizer (6154) VIRGINIA-CARCLINA CHEMICAL CORPORATION Beltimore, Md. V-C O-12-5 Fertilizer (5666) V-C O-12-5 Fertilizer (5666) V-C O-12-5 Fertilizer (5037) V-C O-14-6 Fertilizer (6037) V-C O-14-6 Fertilizer (5807) V-C O-14-6 Fertilizer (5805) YORK CHEMICAL WORKS, York, Pe. Dempwolf's O-12-5 (5628) Dempwolf's O-12-5 (5628) Dempwolf's O-12-5 (5624) Dempwolf's O-12-5 (5642) Dempwolf's O-14-6 (5795) YORK STONE & SUPPLY CO., York, Pe. Cramer's York O-12-5 (5647) 12.08 12.09 12.00 12.00 12.00 12.00 12.00 5.00		11.42	10,00	10.18	10.00	
Beltimore, Md. Swift's Red Steer 0-12-12 (5229) 12.60 12.00 12.02 12.00 12.02 Swift's Red Steer 0-12-12 (5837) 12.72 12.00 12.02 12.00 12.02 Swift's Red Steer 0-12-12 (5904) 12.08 12.00 12.06 12.00 12.02 Swift's Red Steer 0-12-12 (5904) 12.08 12.00 12.86 12.00 Swift's Red Steer 0-12-12 (5904) 12.08 12.00 12.86 12.00 Swift'e Red Steer 0-14-6 (5757) 14.20 14.00 7.12 6.00 F. W. TINNELL & COMPANY, INC. Fhiladelphie, Pa. Tunnell's 0-14-7 Fertilizer (6154) 14.24 14.00 *6.72 7.00 VIRGINIA-CAROLINA CHEMICAL CORPORATION Beltimore, Md. V-C 0-12-5 Fertilizer (5169) 12.16 12.00 5.91 5.00 V-C 0-12-5 Fertilizer (5666) 12.16 12.00 5.91 5.00 V-C 0-12-5 Fertilizer (5666) 12.16 12.00 5.02 5.00 V-C 0-14-6 Fertilizer (5307) 14.84 14.00 6.11 6.00 V-C 0-14-6 Fertilizer (5851) 14.96 14.00 6.50 6.00 YORK CHEMICAL WORKS, York, Fe. Dempwolf's 0-10-10 (5627) 12.70 12.00 5.02 5.00 5.00 Dempwolf's 0-12-5 (5435) 12.70 12.00 5.02 5.00 5.00 Dempwolf's 0-12-5 (5628) 12.01 12.00 5.42 5.00 5.00 Dempwolf's 0-14-6 (5642) 14.58 14.00 6.64 6.00 Cramer's York 0-12-5 (5647) 12.98 12.00 6.10 5.00 5.00 YORK STONE & SUPPLY CO., York, Fe. Cramer's York 0-12-5 (5647)	Somereet, Pe. Beever Brend 0-12-5 (6010)	12.32	12.00	5.61	5.00	
Philadelphie, Pa. Tunnell's O-14-7 Fertilizer (6154) VIRGINIA-CAROLINA CHEMICAL CORFORATION Beltimore, Md. V-C O-12-5 Fertilizer (5169) V-C O-12-5 Fertilizer (5666) V-C O-12-5 Fertilizer (6037) V-C O-12-5 Fertilizer (6037) V-C O-14-6 Fertilizer (5307) V-C O-14-6 Fertilizer (5307) V-C O-14-6 Fertilizer (5851) YORK CHEMICAL WORKS, York, Pe. Dempwolf's O-10-10 (5627) Dempwolf's O-12-5 (5628) Dempwolf's O-12-5 (5628) Dempwolf's O-14-6 (5795) YORK STONE & SUPPLY CO., York, Pe. Cramer's York O-12-5 (5647) 14.24 14.00 *6.72 7.00 *4.72 5.00 4.72 5.00 5.00 12.00 5.00 5.00 12.00 5.00 5.00 12.00 5.00 12.00 5.00 5.00 12.00 5.00	Beltimore, Md. Swift's Red Steer 0-12-5 (5753) Swift's Red Steer 0-12-12 (5229) Swift's Red Steer 0-12-12 (5837) Swift's Red Steer 0-12-12 (5904)	12.60 12.72 12.08	12.00 12.00 12.00	12.65 12.02 12.86	12.00 . 12.00 12.00	
Beltimore, Md. V-C 0-12-5 Fertilizer (5669) V-C 0-12-5 Fertilizer (5666) 12.16 12.00 5.91 5.00 12.00 5.91 5.00 12.00 5.91 5.00 12.00 5.91 5.00 12.00 5.91 5.00 12.00 5.02 5.00 12.00 5.02 5.00 12.00 5.00 12.00 6.10 12.00 5.00 5.00 12.00 5.00 5.00 12.00 5.00 5.00 12.00 5.00 5.00 12.00 5.00 5.00 12.00 5.00 5.00 12.00 5.00 5.00 12.00 5.00 5.00 12.00 5.00 5.00 12.00 5.00 5.00 12.00 5.00 5.00 12.00 5.00 5.00 12.00 5.00 5.00 5.00 12.00 5.00 5.00 5.00 12.00 5.00 5.00 5.00 12.00 5.00 5.00 5.00 12.00 5.00 5.00 5.00 12.00 5.00 5.00 5.00 5.00 12.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00	Fhiladelphie, Pa. Tunnell's 0-14-7 Fertilizer (6154)	14.24	14.00	*6.72	7.00	
Dempwolf's 0-10-10 (5627) Dempwolf's 0-12-5 (5433) Dempwolf's 0-12-5 (5628) Dempwolf's 0-12-5 (5628) Dempwolf's 0-14-6 (5642) Dempwolf's 0-14-6 (5795) YORK STONE & SUPPLY CO., York, Pe. Cramer's York 0-12-5 (5647) Dempwolf's 0-14-6 (5647) 12.70 12.00 12.00 5.00 5.00 14.00 6.64 6.00 14.00 7.10 6.00 12.98 12.00 6.10 5.00 12.98 12.00 6.10 5.00 12.98 12.00 6.10 5.00 12.98 12.00 6.10 5.00 12.98 12.00 6.10 5.00 12.98	Beltimore, Md. V-C 0-12-5 Fertilizer (5169) V-C 0-12-5 Fertilizer (5666) V-C 0-12-5 Fertilizer (6037) V-C 0-14-6 Fertilizer (5307)	12.16 12.04 14.84	12.00 12.00 14.00	5.91 5.02 6.11	5.00 5.00 6.00	
Cramer's York 0-12-5 (5647)	Dempwolf's 0-10-10 (5627) Dempwolf's 0-12-5 (5433) Dempwolf's 0-12-5 (5628) Dempwolf's 0-14-6 (5642)	12.70 12.01 14.58	12.00 12.00 14.00	5.00 5.42 6.64	5.00 5.00 6.00	
Averege 14.87 8.51	YORK STONE & SUPPLY CO., York, Pe. Cramer's York 0-12-5 (5647)	12,98	12,00		5,00	
	Averege	14.87		8.51		

TABLE VII. MISCELLANEOUS FERTILIZERS

	AB	Muriete	P. ct.			l				1	}	!	-						l				
POTASH		Guar.	P. ct.		l	}	-			00.00	48.00	50,00					-		l				
		Found	P. ct.			į	-	i		61.24	*47.48	50.45	53.06		l	İ	-		ļ				
	Insoluble	Guar.	P. ct.				-	ļ					1				-						
	Inso	Found	P. ct.		-	-	-	ļ		}	1 1 1												
PHOSPHORIC ACID	Aveilable	Guar.	P. ct.		i		-	;		1							-		2 •00				
РНОSРНО	Avei	Found	P. ct.		-			ļ		1	}		1				-		2,16				
	Totel	Guar.	P. ct.					ļ					1		00°6	12.00			İ				
	To	Found	P. ct.							1		-			10,30	12,95	11,63						
GEN	0	Guar.	P. ct.		16.00	16,00		20.57		;					5.75	5.00	1		00•9				
NITROGEN	1	Found	P. ct.		16.22	16,18	16,20	21.14		-			1		6.76	6.01	6.39		62.9				
MANITIDA CIPULIDED AND DDAND MANE	MANUFACTURER AND BRAND NAME			NITRATE OF SODA	THE BARRETT COMPANY, New York, N. Y. Arcadien The Americen Nitrete of Sode (6088)	CHILEAN NITRATE SALES CORPORATION, New York, N. Y. Champion Brand Chileen Nitrate of Sode (5274)	Average	SAUGH & SONS COMPANY Philadelphia, Pe.	NUMIATE OF POTASH	EASTERN STATES FARMERS' EXCHANGE, Springfield, Mass. Eestern States Murlate of Potash (5763)	SWIFT & COMPANY FERTILIZER "ORKS, Beltimore, Md. Swift's Muriete of Potaeh (5840)	VIRGINIA-CAROLINA CHEMICAL CORPORATION, Baltimore, Md. Muriete of Potesh (5696)	Average	TANKAGE	READING BONE FERTILIZER COMPANY, Reading, Pa.	UNITED HOME DRESSED MEAT COMPANY, Altoona, Pa. Dry Tankage (5697)	Аметеке	MISCELLANEOUS	SEWERAGE COMMISSION, Milwaukee, Wie. Milorgenite (6072)	*Deficient			

